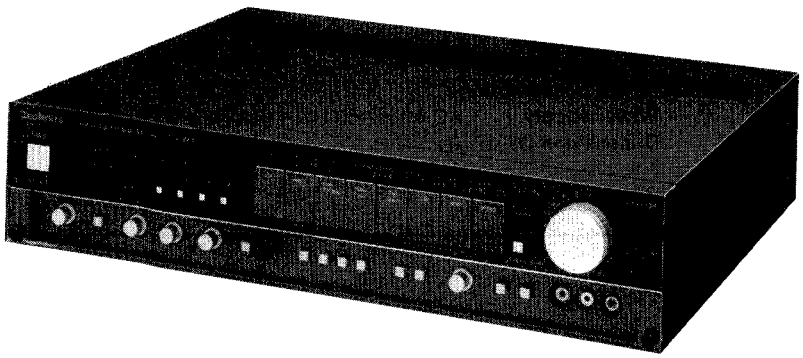
ORDER NO. HAD84052765A9

Service Manual

Stereo DC Control Amplifier

SU-A6MK2(K)

[D],[EK],[EW],[EB],[EF],
[EH],[XA],[XL],[Ei],[PA],
[PE],[PC]



Areas

* [D] is available in Scandinavia.
* [EK] is available in United Kingdom.
* [EW] is available in Switzerland.
* [EB] is available in Belgium.
* [EF] is available in France.
* [EH] is available in Holland.
* [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
* [XL] is available in Australia.
* [Ei] is available in Italy.
* [PA] is available in far East PX.
* [PE] is available in European Military.
* [PC] is available in European Audio Club.

* The color of this model is black type only.
* The black type model is indicated by (K) in the Service Manual.

Please use this manual together with the service manual for Model No. SU-A6MK2, Order No. HAD84032748C1.

■ SPECIFICATIONS

(Specifications are subject to change without notice for further improvement.)

(DIN 45 500)

■ AUDIO SECTION

Total harmonic distortion (20 Hz~20 kHz)

PHONO MM	0.002% (0.5 V output at vol. −30 dB)
	0.002% (3 V output at vol. max.)
PHONO MC	0.015% (0.5 V output at vol. −30 dB)
	0.003% (3 V output at vol. max.)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	0.002% (0.5 V output at vol. −30 dB)
	0.002% (3 V output at vol. max.)

Input sensitivity and impedance

PHONO MM	2.5 mV/47 kΩ
MC	100 μV/220Ω
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/47 kΩ

PHONO maximum input voltage (1 kHz, RMS)

MM	160 mV

S/N

PHONO MM	80 dB (90 dB, IHF, '66)
MC	73 dB (75 dB, IHF, '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	100 dB (106 dB, IHF, '66)

Frequency response

PHONO MM	20 Hz~20 kHz, RIAA standard curve, ±0.2 dB
	20 Hz~100 kHz, RIAA standard curve, ±0.5 dB
TUNER, CD, VIDEO/AUX 1 TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	20 Hz~20 kHz (+0, −0.1 dB)
	0.5 Hz~200 kHz (+0, −3 dB)

Shelving Tone

SUPER BASS (30 Hz)	0 dB~+10 dB
BASS (50 Hz)	−5 dB~+5 dB
TREBLE (20 kHz)	−5 dB~+5 dB
SUPER TREBLE (50 kHz)	−10 dB~+10 dB

Technics

Panasonic Tokyo
Matsushita Electric Industrial Co., Ltd.
1-2, 1-chome, Shiba-koen, Minato-ku, Tokyo 105 Japan

Matsushita Electric Trading Co., Ltd.
P.O. Box 288, Central Osaka Japan

Turnover frequency	
SUPER BASS (+12 dB/oct)	75 Hz, 150 Hz
BASS	500 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz
SUBSONIC FILTER (–12 dB/oct)	20 Hz
Muting	–20 dB
Output voltage and impedance	
PRE OUT	rated 2 V/2Ω max. 8 V/2Ω
REC OUT	
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/600Ω

■ VIDEO SECTION (VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR

Output voltage (at 1V input, 75 ohms unbalanced)	1±0.1Vp-p
Maximum input voltage	1.5Vp-p
Input/output impedance	75 ohms unbalanced

■ GENERAL

Power consumption	17 W
Power supply	AC 50 Hz/60 Hz, 110 V/120 V/220 V/240 V
Dimensions (W×H×D)	430 × 98 × 360 mm (16-15/16" × 3-7/8" × 14-3/16")
Weight	5.9 kg (13.0 lb.)

■ TECHNISCHE DATEN (Die technischen Daten können infolge von Verbesserungen ohne Ankündigung geändert werden.)

(DIN 45 500)

■ TON TEIL

Gesamtklirrfaktor (20 Hz~20 kHz)	
PHONO MM	0,002% (0,5 V Ausgangsspannung bei –30 dB Leistung) 0,002% (3 V Ausgangsspannung bei Höchstleistung)
PHONO MC	0,015% (0,5 V Ausgangsspannung bei –30 dB Leistung) 0,003% (3 V Ausgangsspannung bei Höchstleistung)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	0,002% (0,5 V Ausgangsspannung bei –30 dB Leistung) 0,002% (3 V Ausgangsspannung bei Höchstleistung)
Eingangsempfindlichkeit und -impedanz	
PHONO MM	2,5 mV/47 kΩ
MC	100 μV/220Ω
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/47 kΩ
Maximale TA-Eingangsspannung (1 kHz, eff.)	
MM	160 mV
Geräuschabstand	
PHONO MM	80 dB (90 dB nach IHF, '66)
MC	73 dB (75 dB nach IHF, '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	100 dB (nach IHF, '66: 106 dB)
Frequenzgang	
PHONO MM	RIAA-standardkurve, 20 Hz~20 kHz, ±0,2 dB RIAA-standardkurve 20 Hz~100 kHz, ±0,5 dB
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	20 Hz~20 kHz (+0, –0,1 dB) 0,5 Hz~200 kHz (+0, –3 dB)
Shelving Tone	
SUPER BASS (30 Hz)	0 dB~10 dB
BASS (50 Hz)	–5 dB~+5 dB
TREBLE (20 kHz)	–5 dB~+5 dB
SUPER TREBLE (50 kHz)	–10 dB~+10 dB
Turnover frequency	
SUPER BASS (+12 dB/oct)	75 Hz, 150 Hz
BASS	500 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz
SUBSONIC FILTER (–12 dB/oct)	20 Hz
Tondämpfung	–20 dB
Ausgangsspannung und -impedanz	
PRE OUT	Nennspg. 2 V/2Ω max. 8 V/2Ω
REC OUT	
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/600Ω

■ BILDTEIL (VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR)

Ausgangssignalpegel (bei 1 Vss, 75Ω, unsymetrisch)	1±0,1 Vp-p
Maximale Eingangsspannung	1,5 Vp-p
Eingangs/Ausgangsimpedanz	75Ω Unsymetrisch

■ ALLGEMEINE DATEN

Leistungsaufnahme	17 W
Netzspannung	Wechselstrom 50 Hz/60 Hz, 110 V/120 V/220 V/240 V
Abmessungen (B×H×T)	430 × 98 × 360 mm
Gewicht	5,9 kg

■ CARACTERISTIQUES (Sujet á changement sans prearis.)

(DIN 45 500)

■ SECTION AUDIO

Distorsion harmonique totale (20 Hz~20 kHz)

PHONO MM	0,002% (sortie de 0,5 V à vol. −30 dB)
	0,002% (sortie de 3 V à vol. max.)
PHONO MC	0,015% (sortie de 0,5 V à vol. −30 dB)
	0,003% (sortie de 3 V à vol. max.)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	0,002% (sortie de 0,5 V à vol. −30 dB)
	0,002% (sortie de 3 V à vol. max.)

Sensibilité et impédance d'entrée

PHONO MM	2,5 mV/47 kΩ
PHONO MC	100 μV/220Ω
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/47 kΩ

PHONO (tension d'entrée maximum, 1 kHz RMS)

MM	160 mV

Signal/Bruit

PHONO MM	80 dB (90 dB, IHF, '66)
PHONO MC	73 dB (75 dB, IHF, '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	100 dB (IHF, '66: 106 dB)

Réponse de fréquence

PHONO MM	20 Hz~20 kHz, Courbe nominale RIAA ±0,2 dB
	20 Hz~100 kHz, Courbe nominale RIAA ±0,5 dB
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	20 Hz~20 kHz (+0, −0,1 dB)
	0,5 Hz~200 kHz (+0, −3 dB)

Shelving Tone

SUPER BASS (30 Hz)	0 dB~+10 dB
BASS (50 Hz)	−5 dB~+5 dB
TREBLE (20 kHz)	−5 dB~+5 dB
SUPER TREBLE (50 kHz)	−10 dB~+10 dB

Turnover frequency

SUPER BASS (+12 dB/oct)	75 Hz, 150 Hz
BASS	500 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz
SUBSONIC FILTER (−12 dB/oct)	20 Hz
Réglage silencieux	−20 dB

Tension de sortie et impédance

PRE OUT	nominale 2 V/2Ω
	maxi. 8 V/2Ω
REC OUT	
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/600Ω

■ SECTION VIDEO (VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR)

Tension de sortie (à une entrée de 1 Vp-p, 75Ω, non-équilibré)	1±0,1 Vp-p
Tension d'entrée maxiumum	1,5 Vp-p
Impédance d'entrée/sortie	75Ω non-équilibre

■ DIVERS

Consommation	17 W
Alimentation	CA 50 Hz/60 Hz, 110 V/120 V/220 V/240 V
Dimensions (L×H×Pr)	430 × 98 × 360 mm
Poids	5,9 kg

Nota:
La Société NATIONAL-PANASONIC-FRANCE, importateur du matériel MATSUSHITA-ELECTRIC déclare que cet appareil est conforme aux prescriptions de la directive 76/889/C.E.E. (arrêté 14 Janvier 1980).

■ ESPECIFICACIONES (Estas especificaciones están sujetas a cualquier cambio sin previo eviso.)

(DIN 45 500)

■ SECCION AUDIO

Distorsión armónica total (20 Hz~20 kHz)

PHONO MM	0,002% (0,5 V de salida a vol. de −30 dB)
	0,002% (3 V de salida a vol. máx.)
PHONO MC	0,015% (0,5 V de salida a vol. de −30 dB)
	0,003% (3 V de salida a vol. máx.)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	0,002% (0,5 V de salida a vol. de −30 dB)
	0,002% (3 V de salida a vol. máx.)

Sensibilidad e impedancia de entrada

PHONO MM	2,5 mV/47 kΩ
PHONO MC	100 μV/220Ω
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/47 kΩ

Voltaje máximo de entrada de PHONO (1 kHz, RMS)

MM	160 mV

Relación de señal a ruido

PHONO MM	80 dB (90 dB, IHF, '66)
PHONO MC	73 dB (75 dB, IHF, '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	100 dB (IHF, '66: 106 dB)

Shelving Tone

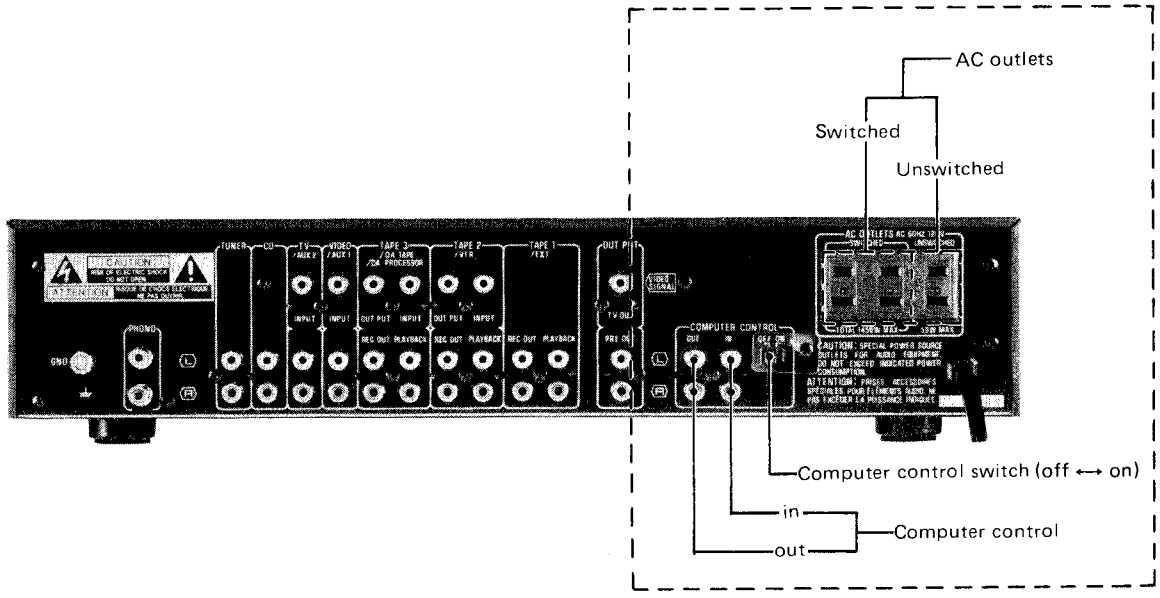
SUPER BASS (30 Hz)	0 dB~+10 dB
BASS (50 Hz)	−5 dB~+5 dB
TREBLE (20 kHz)	−5 dB~+5 dB
SUPER TREBLE (50 kHz)	−10 dB~+10 dB

Respuesta de frecuencia	
PHONO MM	20 Hz~20 kHz, curva RIAA estándar ±0,2 dB 20 Hz~ 100 kHz, curva RIAA estándar ±0,5 dB
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	20 Hz~20 kHz (+0, −0,1 dB) 0,5 Hz~200 kHz (+0, −3 dB)
Turnover frequency	
SUPER BASS (+12 dB/oct)	75 Hz, 150 Hz
BASS	500 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz
SUBSONIC FILTER (−12 dB/oct)	20 Hz
Silenciamiento	−20 dB
Voltaje e impedancia de salida	
PRE OUT	de régimen 2 V/2Ω máx. 8 V/2Ω
REC OUT	
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE/DA PROCESSOR	150 mV/600Ω
■ SECCION VIDEO (VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3 DA TAPE/DA PROCESSOR)	
Voltaje e salida (con una entrade de 1 Vp-p, 75Ω, desequilibrada)	1 ±0,1 Vp-p
Voltaje máximo de entrada	1,5 Vp-p
Impedancia de entrada/salida	75Ω desequilibrada
■ GENERAL	
Consumo de energía	17 W
Alimentación de energía	CA 50 Hz/60 Hz, 110 V/120 V/220 V/240 V
Dimensiones (An.×Al.×Prof.)	430 × 98 × 360 mm
Peso	5,9 kg

■ LOCATION OF CONTROLS

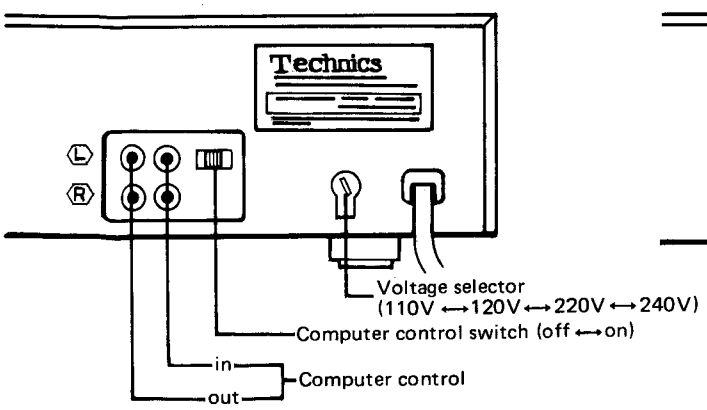
- Change parts of Rear panel

[M] area

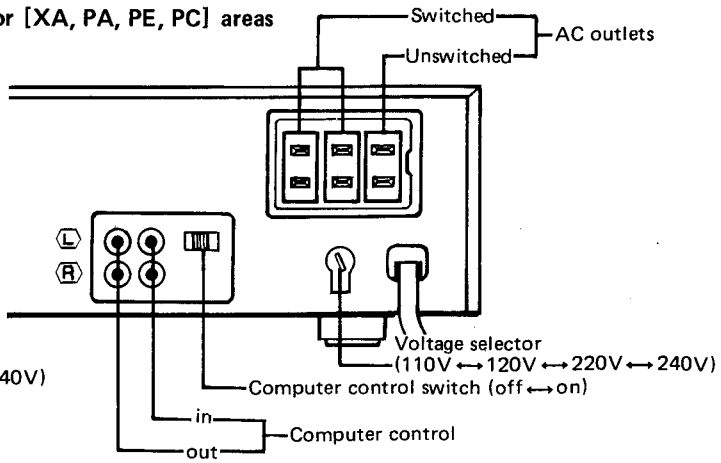


CHANGE

For [Other] areas



For [XA, PA, PE, PC] areas



■ ABGLEICH-METHODE

• Einstellungen am Gerät und zu verwendende Instrumente

1. Eingangs—Wahlschalter . . . . . tuner
2. Betriebsart—Wahlschalter . . . . . DC
3. Balanceregelung . . . . . center
4. Lautstärkeregelung . . . . . 0dB (MAX)
5. Gleichstrom-Voltmeter (Hochpräzisions-Typ).

Achtung

Nach dem Einschalten des Gerätes ist mindestens 2 Minuten lang zu warten, bevor die Justierung durchgeführt wird.

Justierung	Gleichstrom-Voltmeter-Anschlüsse	Zu justierender Drehwiderstand	Vorgehen
Gleichstrom-Balance (Treiberstufe)	L.K: Gleichstrom-Voltmeter zwischen TP1 und TP2 (Masse) anschließen.	VR501	VR501 (L.K.) und VR502 (R.K.) so justieren, daß das Gleichstrom-Voltmeter 0 ±0,1mV anzeigt.
	R.K: Gleichstrom-Voltmeter zwischen TP3 und TP2 (Masse) anschließen.	VR502	
Gleichstrom-Balance (Hochverstärkungsstufe)	L.K: Gleichstrom-Voltmeter an den ausgangsanchluß (Pre out) anschließen.	VR801	VR801 (L.K.) und VR802 (R.K.) so justieren, daß, das Gleichstrom-Voltmeter 0 ±0,5mV anzeigt.
	P.K: Gleichstrom-Voltmeter an den ausgangsanschluß (Pre out) anschließen.	VR802	

■ PROCEDURE DE MISE AU POINT

• Conditions de l'appareil et appareil utilisé

1. Commutateur du sélecteur d'entrée . tuner (synthonisateur)
2. Commutateur de commande . . . . . DC (C.C.)
3. Commande d'équilibrage . . . . . centre
4. Commande du volume . . . . . 0dB (MAX.)
5. Voltmètre à C.C. (modèle de précision)

Avertissement

Effectuer le réglage au moins 2 minutes après que l'interrupteur d'alimentation air éré mis en marche.

Points de réglage	Raccordements du voltmètreà C.C.	VR à régler	Procédure
Réglage de compensation du C.C. (Amplif. d'entraînement)	Canal de gauche Voltmètre à C.C. raccordé entre TP1 et TP2 (terre).	VR501	Ajuster VR501 (canal de gauche) et VR502 (canal de droite) de telle sorte que la lecture du voltmètre à C.C. soit de 0 ± 0,1mV.
	Canal de droite Voltmètre à C.C. raccordé entre TP3 et TP2 (terre).	VR502	
Réglage de compensation du C.C. (Amplif. de gain élevé)	Canal de gauche Voltmètre à C.C. raccordé à la borne de sortie. (Sortie du pré-amplif.)	VR801	Ajuster VR801 (canal de gauche) et VR802 (canal de droite) de telle sorte que la lecture du voltmètre à C.C. soit de 0 ± 0,5mV.
	Canal de droite Voltmètre à C.C. raccordé à la borne de sortie. (Sortie du pré-amplif.)	VR802	

SU-A6MK2

■ PROCEDIMIENTO DE AJUSTE

• Condiciones del aparato e instrucciones usadas

1. Interruptor selector de entrada . . . . . tuner (sintonizador)
2. Interruptor de operación . . . . . DC (C.C.)
3. Control de equilibrio. . . . . center (centro)
4. Control de volumen. . . . . 0dB (MAX.)
5. Voltímetro de C.C. (tipo de precisión)

Precaución

Hacer el ajuste por lo menos 2 minutos después de conectar el interruptor de alimentación.

Items de ajuste	Conexiones de volti	VR ajustado	Procedimiento
Equilibrio de CC. (Amp. excitador)	Canal I Voltímetro de C.C. conectado entre TP1 y TP2 (TIERRA).	VR501	Ajustar VR501 (Canal I) y VR502 (Canal D) de manera que la lectura de voltímetro de C.C. sea 0 ± 0,1mV.
	Canal D Voltímetro de C.C. conectado entre TP3 y TP2 (TIERRA).	VR502	
Equilibrio de CC. (Amp. de ganancia alta)	Canal I Voltímetro de C.C. conectado al terminal de salida (Pre-salida).	VR801	Ajustar VR801 (Canal I) y VR802 (Canal D) de manera que la lectura de voltímetro de C.C. sea 0 ± 0,5mV.
	Canal D Voltímetro de C.C. conectado al terminal de salida (Pre-salida).	VR802	

CHANGE

■ REPLACEMENT PARTS LIST

(1) Mentioned in this parts list are only those changed in Model No. SU-A6MK2 (K) for destination [M] area.
(2) Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these somponents, use only manufacturer's specified parts.
(3) The " Ⓢ " mark is service standard parts and may differ from production parts.

Ref. No.	Change of Part No. SU-A6MK2 [M]	Change of Part No. → SU-A6MK2 [D, EK, EW, EB, EF, EH, XA, XL, Ei, PA, PE, PC]	Part Name & Description Area	Part Name & Description
TRANSFOMER				
T1	SLT5K165	SLT5L185 ⚠		Power Source
FUSES				
F1, 2	Addition	XBA2C03TR0 ⚠		250V, T315mA
F3	Addition	XBA2C04TR0 ⚠		250V, T400mA
SWITCHES				
S1	ESB9939T	ESB99399S ⚠		Power switch
S2	Addition	ESE3787 ⚠		Voltage selector
RESISTORS				
R412	ERD25FJ332	ERD25FJ392 Ⓢ		Carbon, ¼W, 3.9kΩ
R442	Addition	ERDS2TJ101		Carbon, ¼W, 100Ω
CAPACITORS				
C2	ECKDKC103PF2	Deletion	[Other]	———
		ECKDKC103PF2	[XA, PA, PE, PC]	Ceramic, AC400V 0.01μF
C416	Addition	ECKD1H271KB Ⓢ		Ceramic, 50V 270pF
C417	Addition	ECCD1H181K Ⓢ		Ceramic, 50V 180pF
CABINET AND CHASSIS PARTS				
35	SJS601-3	Deletion	[Other]	———
		SJS601-3 ⚠	[XA, PA, PE, PC]	Socket, AC Outlet (1)
36	SHR129	SHR127	[Other]	Bushing, AC Cord (1)
		SHR129	[EK]	Bushing, AC Cord (1)
		SHR131	[XL]	Bushing, AC Cord (1)
37	SJA109	SJA138-3 ⚠	[Other]	AC Cord (1)
		QFC1205M ⚠	[EK]	AC Cord (1)
		QFC1207MA ⚠	[XL]	AC Cord (1)
		SJA121 ⚠	[XA, PA, PE, PC]	AC Cord (1)

Ref. No.	Change of Part No. SU-A6MK2 [M]	Change of Part No. → SU-A6MK2 [D, EK, EW, EB, EF, EH, XA, XL, Ei, PA, PE, PC]	Part Name & Description Area	Part Name & Description
39	SGP6050C	SGPUA6MK2-KD	[D, Ei, EB]	Rear Panel (1)
		SGPUA6MK2-KW	[EW]	Rear Panel (1)
		SGPUA6MK2-KK	[EK]	Rear Panel (1)
		SGP6050-1A	[EF, EH]	Rear Panel (1)
		SGP6050-2A	[XL]	Rear Panel (1)
		SGP6050-3A	[XA, PA, PE, PC]	Rear Panel (1)
59	Addition	SMN1912		Bracket, Voltage Selector (1)
SCREW				
N28	Addition	XTB3+14BFZ		⊕3 x 14 (2)
PACKING PARTS				
P3	Addition	SPS2955-8	[XL] only	Pad, left side (1)
P4	Addition	SPS2957-8	[XL] only	Pad, Right side (1)
P5	SPG4791	SPG4791	[Other]	Carton Box (1)
		SPG4793	[EF]	Carton Box (1)
		SPG4794	[XL]	Carton Box (1)
		SPG4836	[EK]	Carton Box (1)
ACCESSORIES				
A3	SQF12025	SQF12027	[Other]	Instruction Book (1)
		SQF12029	[XA, PC]	Instruction Book (1)
		SQF12030	[PA, PE]	Instruction Book (1)
A5	Addition	SJP9215 ⚠	[XA, PA, PE, PC] only	Plug Adaptor (1)
A6	Addition	SJP9003		Plug, TV, VTR (4)
A7	Addition	SJP9004		Plug, TV Out (1)

■ REPLACEMENT PARTS LIST

Notes:

1. Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
2. Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufactur's specified parts.
3. Bracked indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
4. The " Ⓢ " mark is service standard parts and may differ from production parts.
5. The parenthesized numbers in the column of description stand for the quantity per set.

Areas

* [D] is available in Scandinavia.
* [EK] is available in United Kingdom.
* [EW] is available in Switzerland.
* [EB] is available in Belgium.
* [EF] is available in France.
* [EH] is available in Holland.
* [XA] is available in Southeast Asia, Oceania, Africa, Middle Near East and Central South America.
* [XL] is available in Australia.
* [Ei] is available in Italy.
* [PA] is available in far East PX.
* [PE] is available in European Military.
* [PC] is available in European Audio Club.

Ref. No.	Part No.	Part Name & Description
INTEGRATED CIRCUITS		
IC101,501,601, 701,801	SVINJM4560DX	Equalizer, Drive Buffer, Amp
IC201,202,204, 205	SVIUPD4002BC	Input selector control
IC203	SVIUPD4072BC	Input selector Control
IC301～305	MN6631A	Input selector (Voice signal)
IC401,402	SVIUPD4066BC	Input selector (Video signal)
IC403	DN74LS05	Inverter
IC702,802	AN6552F	Buffer, DCservo
IC901	AN78M18	Regulator
IC902	AN79M18	Regulator
IC903	AN78M05	Regulator
TRANSISTORS		
Q101～108	2SK369－GR	Differential amp
Q201～208,214, 215,217,501, 502,507～510, 901～904	2SC1685－QNC	Inverter, Input selector, Relay drive
Q209～213,216, 407,408,503, 504,751	2SA1015－Y	Inverter, Input selector, switching
Q401～406	2SA733－P1	Buffer amp
Q505,506,601, 602	2SK389－GR	Differential amp
FUSES		
F1,2 ⚠	XBA2C03TRO	250V, T315mA
F3 ⚠	XBA2C04TRO	250V, T400mA
DIODES		
D101,102,202～209,219,221, 261～268 Ⓢ 501～504,601, 602,911,912, 915	MA162A	Switching
D201	MA1100－M	10V, Zener
D211～218	SVDMC911	Input selector
D220	SVDMZ303BM	3V, Zener
D251～260,351	SVDPR5533K	Input selector IND
D401,505,506	MA27W－A	Switching
D402～404 Ⓢ	MA162A	Input selector
D405	MA1068－M	6.8V Zener
D406	MA1056M	5.6V Zener
D551	SVDPR5735S	Muting IND
D751～754	SVDPR5533K	Rec output
D755	SVDAY5533K－M	DC IND
D901～904, 906～910 ⚠	SVDSRIK2	Rectifier
D913	MA1082M	8.2V Zener
D914	MA1047A	4.7V Zener
COILS		
L101,102	SLQW470－2P	Choke
L401	SLQX181－1D	Choke
L801,802	RLQX1013－D	Choke
L901,902	SLQZ650MH49	Choke
TRANSFORMERS		
T1 ⚠	SLT5L185	Power Source

Ref. No.	Part No.	Part Name & Description
VARIABLE RESISTORS		
VR501,502	EVNK6AA00B52	DC offset adj, 500Ω(B)
VR503	EWGHCA054703	Balance
VR552	EWI6SA049101	Volume
VR701,702	EWGHC0054C15	Treble, super treble 100KΩ(C)
VR703	EWGHCY054530	Bass
VR704	EWKK5A531B53	Supper Bass, 5KΩ(B)
VR801,802	EVNK6AA00B23	DC offset adj, 2KΩ(B)
RELAY		
RLY901	SSY9	output
COMPONENT COMBINATIONS		
Z201,202	EXBP84104K	100kΩ×4
Z203,204	EXFP6103ZW	0.01μF×6
Z901,902	SXRFS203ZSM	0.01μF×2
SWITCHES		
S1 ⚠	ESB99399S	Power switch
S2 ⚠	ESE3787	Voltage Selector
S101,301	SSH2071	Phono, terminal selector
S251～258	SSG13	Input selector
S302～304	SSH469	Tape monitor
S305	RSS42A	Computer control
S501,502	SSH2073	Rec mode, Subsonic
S551	SSH1139	Muting
S701,702	SSH1137	Operation, supper Bass
S751～753	SSH471	Rec output
CABINET AND CHASSIS PARTS		
1	SGU187	Transparent plate (1)
2	SGWUA6MK2－KN	Front panel Ass'y (1)
3	SNE2083	Rock pin (1)
4	SHG6131	Spacer (1)
5	SHR9575	Spacer (1)
6	SUB51	Hinge, Operation Lever(R) (1)
7	SUB53	Hinge, Operation Lever(L) (1)
8	SUB57	Operation Lever (R) (1)
9	SUE23－1	Holder, Operation Lever (1)
10	XUC3FT	E Ring (1)
11	SUB55	Hinge, Operation Lever (1)
12	SUS223	Spring (1)
13	SBC639	Button (1)
14	SHG6129	Spacer (1)
15	SUE25－1	Holder, Gear (1)
16	SUB65	Gear (1)
17	SUB59	Gear (2)
18	SUB63	Gear (1)
19	SBCUA6MK2－KN	Input selector, Plate (1)
20	SGL165	Input selector, Spacer (1)
21	SGXUA6MK2－KN	Input selector, Button (1)
22	SDU241	Spacer, Muting (1)

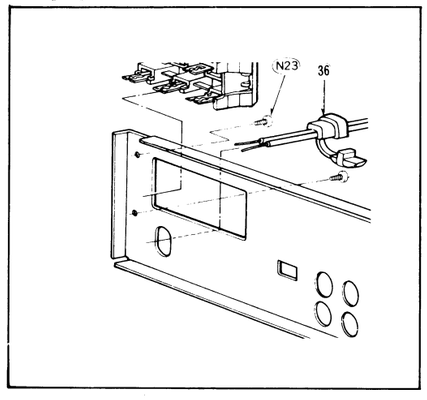
Ref. No.	Part No.	Part Name & Description
23	RHR969ZA	Lock pin (1)
24	SBN1169	Knob, Volume (1)
25	SHP9377	Spacer, Volume (1)
26	SBC621	Button, Rec selector (4)
27	SBC627	Button, Power (1)
28	SBN1167	Knob (5)
29	SBC399T	Button (5)
30	SMCUA6MK2－KN	Bracket, Power Transformer (1)
31	RJR2B	Holder (1)
32	SKU8790－3	Bottom Board (1)
33	SKL247－2	Foot (4)
34	SUB99	Connection Rod (5)
35 [XA, PA, PE, PC] only ⚠	SJS601－3	Socket, AC Outlet (1)
36 [EK]	SHR129	Cord Bushing (1)
36 [XL]	SHR131	Cord Bushing (1)
36 [other]	SHR127	Cord Bushing (1)
37 [XA,PA,PE, PC] ⚠	SJA121	AC Cord (1)
37 [XL] ⚠	QFC1207MA	AC Cord (1)
37 [EK] ⚠	QFC1205M	AC Cord (1)
37 [other] ⚠	SJA138－3	AC Cord (1)
38	SMC1135	Shield Cover (1)
39 [XL]	SGP6050－2A	Rear Panel (1)
39 [D,Ei,EB]	SGPUA6MK2－KD	Rear Panel (1)
39 [EK]	SGPUA6MK2－KK	Rear Panel (1)
39 [EF,EH]	SGP6050－1A	Rear Panel (1)
39 [EW]	SGPUA6MK2－KW	Rear Panel (1)
39 [other]	SGP6050－3A	Rear Panel (1)
40	SJF3057－3N	Terminal, Computer Control (1)
41	SJF3057－4A	Terminal, Output (1)
42	SJF3057－3N	Terminal, Tape1,2 (1)
43	SJF3059－7N	Terminal, Tape3, Tuner (1)
44	SJF3225－3SA	Terminal, Phono (1)
45	SJF3061－4N	Terminal, TV, VIDEO, Tape3 (1)
46	SJF3061－3N	Terminal, Tape2 (1)
47	SKC350B2	Cabinet (1)
48	SNE4017	Terminal, Grand (1)
49	SNTA421	Terminal, Grand (1)
50	SNEA204－2S	Terminal, Grand (1)
51	RJT204A	Terminal, Grand (1)
52	SHP9319	Space (1)
53	SJF3061N	Terminal, OUTPUT (1)
54	SHR301	Clamp (8)
55	SJF3061－2N	Terminal, VIDEO Signal (1)
56	SJT3511	Post(5 pin) (2)
56	SJT3611	Post(6 pin) (1)
57	SJS5331	Socket(3 pin) (1)
57	SJS5629	Socket(6 pin) (1)
58	SJT783	Terminal (32)
59	SMN1912	Plate, Voltage Selector (1)

Ref. No.	Part No.	Part Name & Description
SCREWS, WASHERS AND NUT		
N1 Ⓢ	XTB3+8BFZ	⊕3×8, Front Panel (1)
N2 Ⓢ	XWC3B	Washer, Front Panel (2)
N3 Ⓢ	XSN3+6S	⊕3×6 (1)
N4 Ⓢ	XWA3B	φ3 (4)
N5 Ⓢ	XTB3+8B	⊕3×8 (8)
N6 Ⓢ	XTB3+10B	⊕3×10 (5)
N7 Ⓢ	XTB3+8B	⊕3×8 (2)
N8 Ⓢ	XWC3B	Washer (1)
N9 Ⓢ	XTB3+8B	⊕3×8 (2)
N10 Ⓢ	XSN3+6S	⊕3×6 (2)
N11 Ⓢ	XWA3B	Washer (2)
N12 Ⓢ	XTB3+8B	⊕3×8, Shield (1)
N13	SNE4021	Washer, Volume (1)
N14 Ⓢ	XSN3+6S	⊕3×6 (5)
N15 Ⓢ	XWA3B	Washer (2)
N16 Ⓢ	XTB3+8B	⊕3×8 (2)
N17 Ⓢ	XTB3+8BFZ	⊕3×8 (1)
N18 Ⓢ	XTB3+12BFZ	⊕3×12 (4)
N19 Ⓢ	XTB3+8B	⊕3×8 (10)
N20 Ⓢ	XTV3+8B	⊕3×8 (4)
N21 Ⓢ	XWG3	Washer (4)
N22	XSSS5+12FIS	⊕5×12 Cabinet (8)
N23 Ⓢ	XTB3+8BFZ	⊕3×8 (10)
N24 Ⓢ	XWC4B	Washer (2)
N25 Ⓢ	XNG4BS	Nut (1)
N26 Ⓢ	XTB3+8BFN	⊕3×8 (2)
N27 Ⓢ	XWT4	Washer (2)
N28 Ⓢ	XTB3+14BFZ	⊕3 x 14 (2)

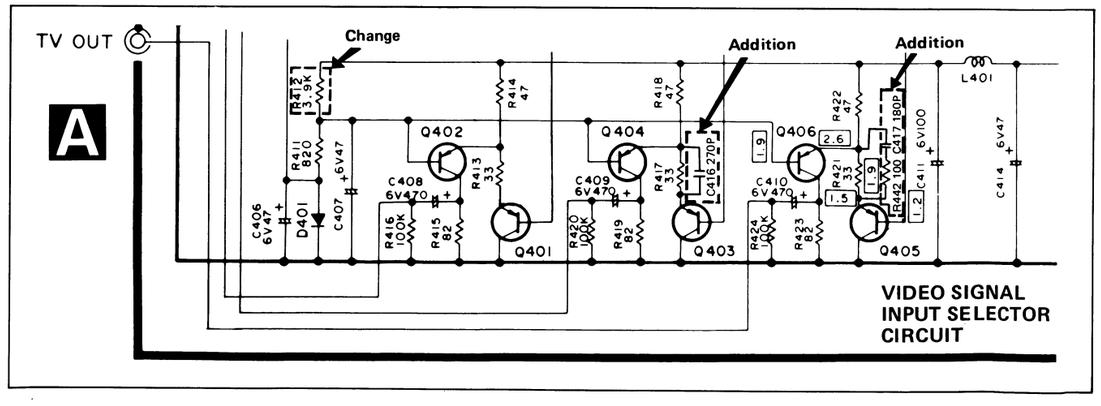
Ref. No.	Part No.	Part Name & Description
PACKING PARTS		
P1	SPP689	Polyethylene Bag (1)
P2	SPH207	Sheet (1)
P3 [XL] only	SPS2955－8	Pad, Left Side (1)
P3 [Other]	SPS2955－6	Pad, Left Side (1)
P4 [XL] only	SPS2957－8	Pad, Right Side (1)
P4 [Other]	SPS2957－5	Pad, Right Side (1)
P5 [EF]	SPG4793	Carton Box (1)
P5 [XL]	SPG4794	Carton Box (1)
P5 [EK]	SPG4836	Carton Box (1)
P5 [other]	SPG4791	Carton Box (1)
ACCESSORIES		
A1	SJP2239	Pin cord (1)
A2	TSX299	Pin cord (1)
A3 [XA, PC]	SQF12029	Instruction Book (1)
A3 [PA,PE]	SQF12030	Instruction Book (1)
A3 [other]	SQF12027	Instruction Book (1)
A4	SJPA11－1	Short Pin (10)
A5 [XA, PA, PE, PC] only ⚠	SJP9215	Plug Adapter, AC (1)
A6	SJP9003	Plug, TV, VTR (4)
A7	SJP9004	Plug, TV Out (1)

■ SCHEMATIC DIAGRAM

- **Change in exploded view [M] area**

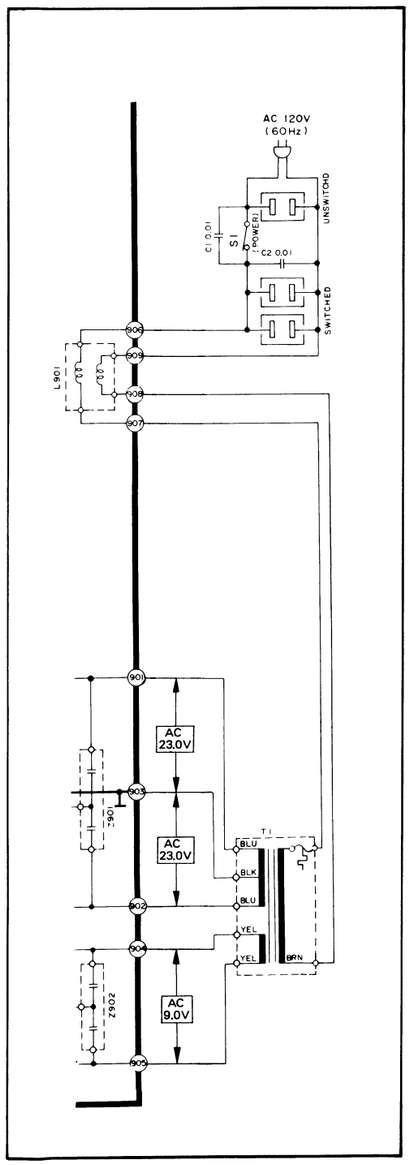


- **Change in video signal input selector circuit**



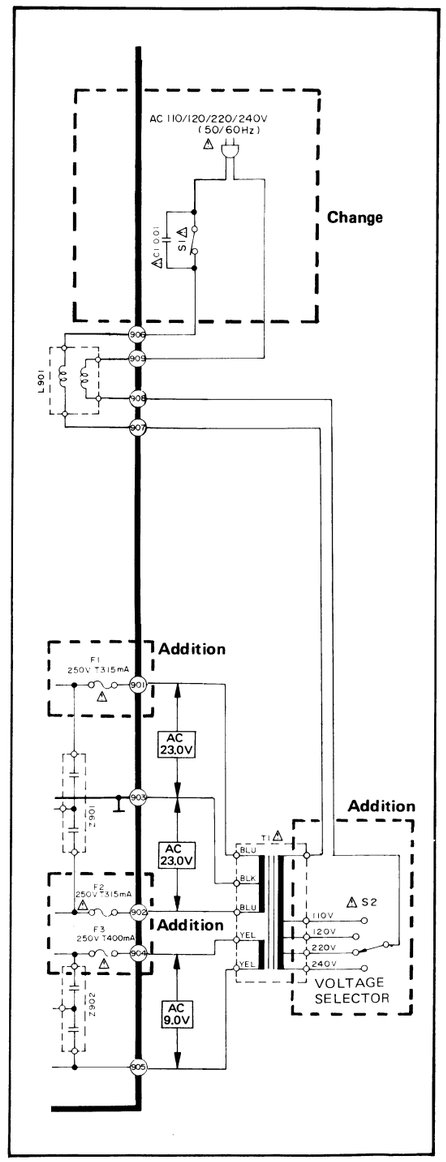
- Change in power supply circuit and area

[M] area

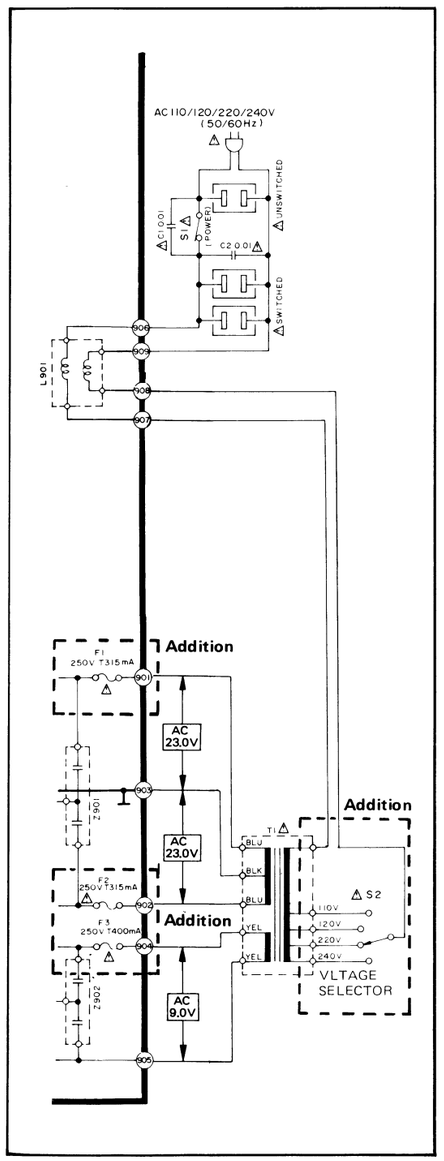


CHANGE

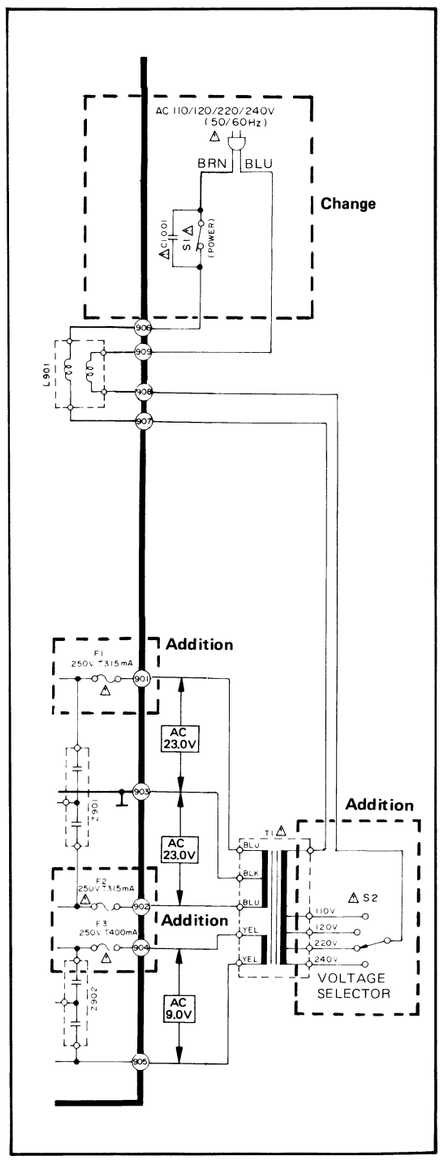
[EW], [Ei], [EB], [D]
[EK], [EF], [EH] areas



[XA], [PA], [PE], [PC] areas



[XL] area



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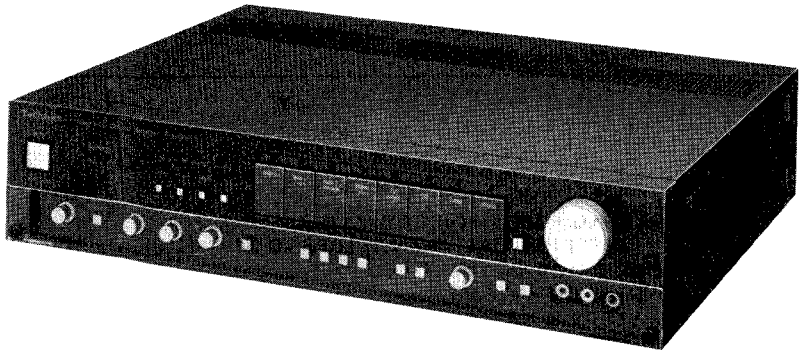
ORDER NO. HAD84032748C1

Service Manual

Stereo DC Control Amplifier

SU-A6MK2(K)

[M], [MC]



* The black type model is indicated by (K) in the Service Manual.
* The colors of this model is black type only.

Areas

* [M] is available in the U.S.A.
* [MC] is available in Canada.

Specifications

Specifications are subject to change without notice for further improvement.
Weights and dimensions shown are approximate.

(IHF '78)

■ AUDIO SECTION

Frequency response

PHONO MM	20 Hz~20 kHz
	RIAA standard curve ±0.2 dB
	20 Hz~100 kHz
	RIAA standard curve ±0.5 dB
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	20 Hz~20 kHz, +0 dB, −0.1 dB
	0.5 Hz~200 kHz, +0 dB, −3 dB

Rated output voltage

PRE OUT	rated 2V
	max. 8V
TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR (REC OUT)	150 mV

Total harmonic distortion (20 Hz~20 kHz)

PHONO MM	0.002%
	(0.5V output at vol. −30 dB, IHF '66)
	0.002%
	(3V output at vol. max. IHF '66)
PHONO MC	0.015%
	(0.5V output at vol. −30 dB, IHF '66)
	0.003%
	(3V output at vol. max. IHF '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	0.002%
	(0.5V output at vol. −30 dB, IHF '66)
	0.002%
	(3V output at vol. max. IHF '66)

Maximum input voltage

PHONO MM	150 mV (160 mV, 1 kHz)

Input sensitivity

PHONO MM	0.63 mV (2.5 mV, IHF '66)
MC	25 μV (100 μV, IHF '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	36 mV (150 mV, IHF '66)

S/N

PHONO MM	80 dB (90 dB, IHF '66)
MC	77 dB (75 dB, IHF '66)
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	97 dB (106 dB, IHF '66)

Input impedance

PHONO MM	47 kilohms
MC	220 ohms
TUNER, CD, VIDEO/AUX 1, TV/AUX 2, TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR	47 kilohms

Output impedance

TAPE 1/EXT, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR (REC OUT)	600 ohms
PRE OUT	2 ohms

Turnover frequency

BASS	500 Hz
SUPER BASS (12 dB/oct.)	75 Hz, 150 Hz
TREBLE	2 kHz
SUPER TREBLE	8 kHz

Shelving tone

BASS (50 Hz)	−5 dB~+5 dB
SUPER BASS (30 Hz)	0 dB~+10 dB
TREBLE (20 kHz)	−5 dB~+5 dB
SUPER TREBLE (50 kHz)	−10 dB~+10 dB
Subsonic filter	20 Hz, −12 dB/oct.
Muting	−20 dB

Technics

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Victoria Industrial Park
Carolina, Puerto Rico 00630

SU-A6MK2

■ VIDEO SECTION
(VIDEO/AUX 1, TV/AUX 2, TAPE 2/VTR, TAPE 3/DA TAPE /DA PROCESSOR)

Output voltage (at 1V input, 75 ohms unbalanced)	1±0.1Vp-p
Maximum input voltage	1.5Vp-p
Input/output impedance	75 ohms unbalanced

■ GENERAL

Power consumption	20W
Power supply	AC 120V, 60 Hz
Dimensions (W×H×D)	430 × 98 × 360 mm (16-15/16" × 3-14/16" × 14-3/16")
Weight	5.8 kg (12.8 lb.)

Note:
Total harmonic distortion is measured by the digital spectrum analyzer (H.P. 3045 system).

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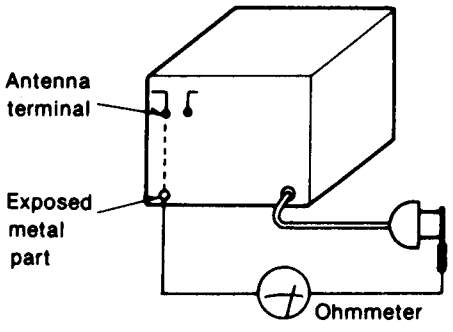
■ SAFETY PRECAUTION

1. Before servicing, unplug the power cord to prevent an electric shock.
2. When replacing parts, use only manufacturer's recommended components for safety.
3. Check the condition of the power cord. Replace if wear or damage is evident.
4. After servicing, be sure to restore the lead dress, insulation barriers, insulation papers, shields, etc.
5. Before returning the serviced equipment to the customer, be sure to make the following insulation resistance test to prevent the customer from being exposed to a shock hazard.

• INSULATION RESISTANCE TEST

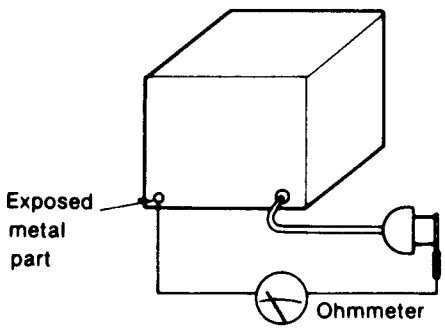
1. Unplug the power cord and short the two prongs of the plug with a jumper wire.
2. Turn on the power switch.
3. Measure the resistance value with ohmmeter between the jumpered AC plug and each exposed metal cabinet part, such as screwheads antenna, control shafts, handle brackets, etc. Equipment with antenna terminals should read between 3MΩ and 5.2MΩ to all exposed parts. (Fig. A) Equipment without antenna terminals should read approximately infinity to all exposed parts. (Fig. B)

Note: Some exposed parts may be isolated from the chassis by design. These will read infinity.



(Fig. A)

Resistance = 3MΩ—5.2MΩ

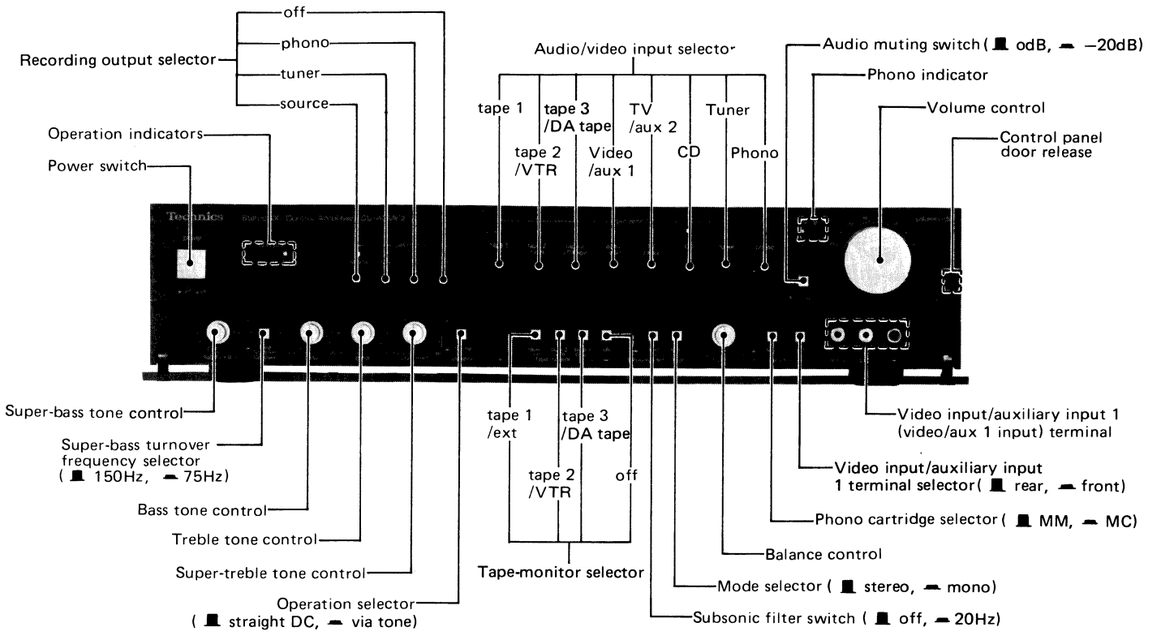


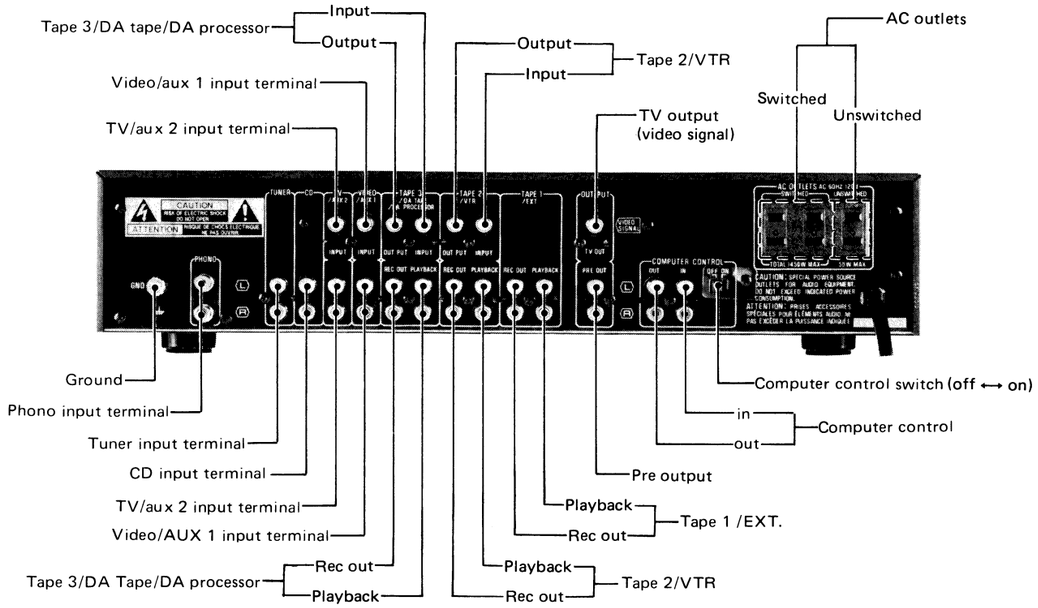
(Fig. B)

Resistance = Approx ∞

4. If the measurement is outside the specified limits, there is a possibility of a shock hazard. The equipment should be repaired and rechecked before it is returned to the customer.

■ LOCATION OF CONTROLS



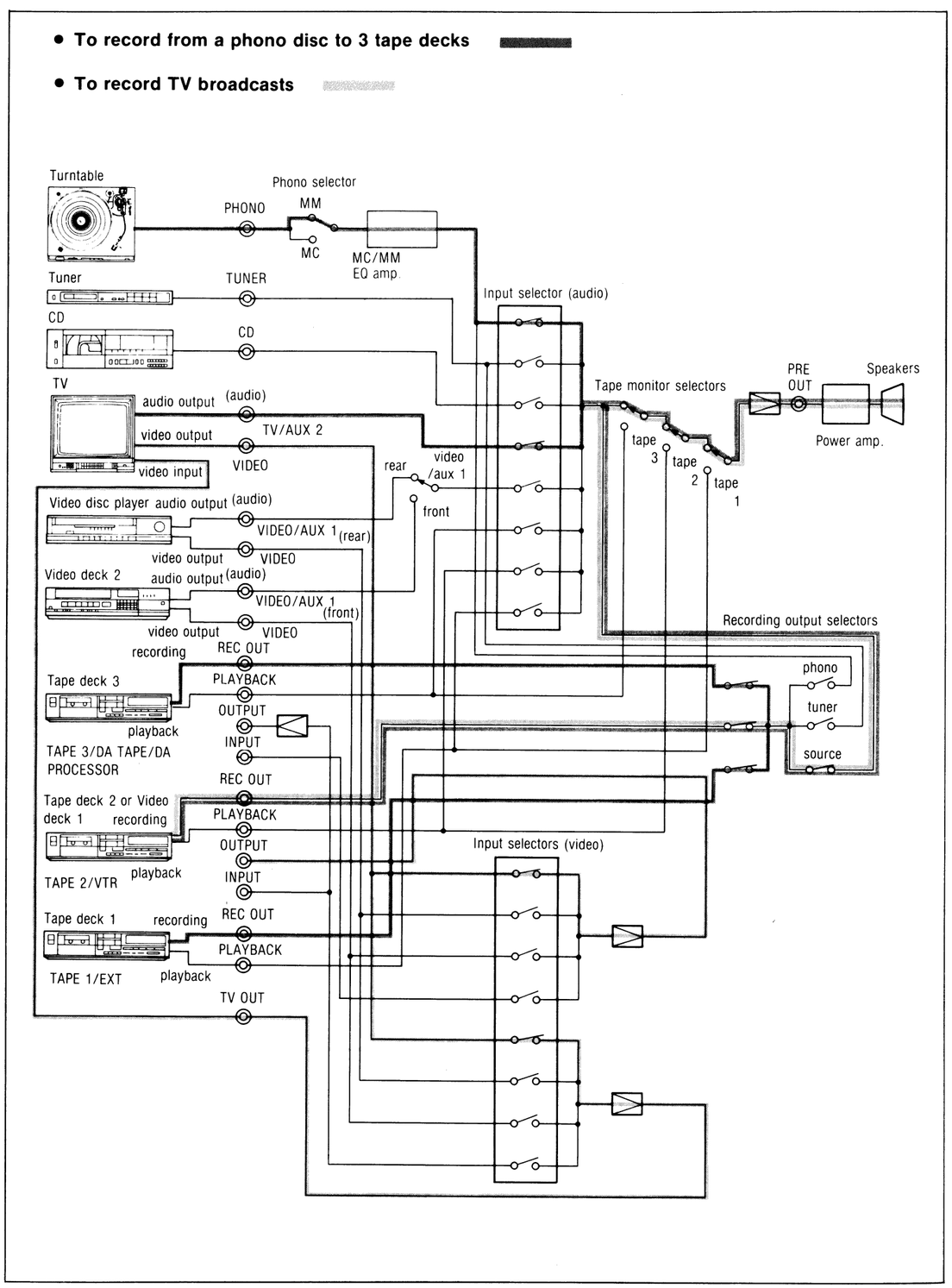


● Phono input capacitance is about 150pF.

■ RECORDING

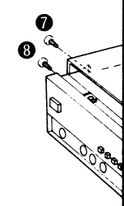
● **To record from a phono disc to 3 tape decks**

● **To record TV broadcasts**



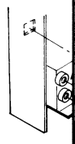
■ DISAS

Ref. No. 1
Procedure 1



Ref. No. 3
Procedure 1 → 3

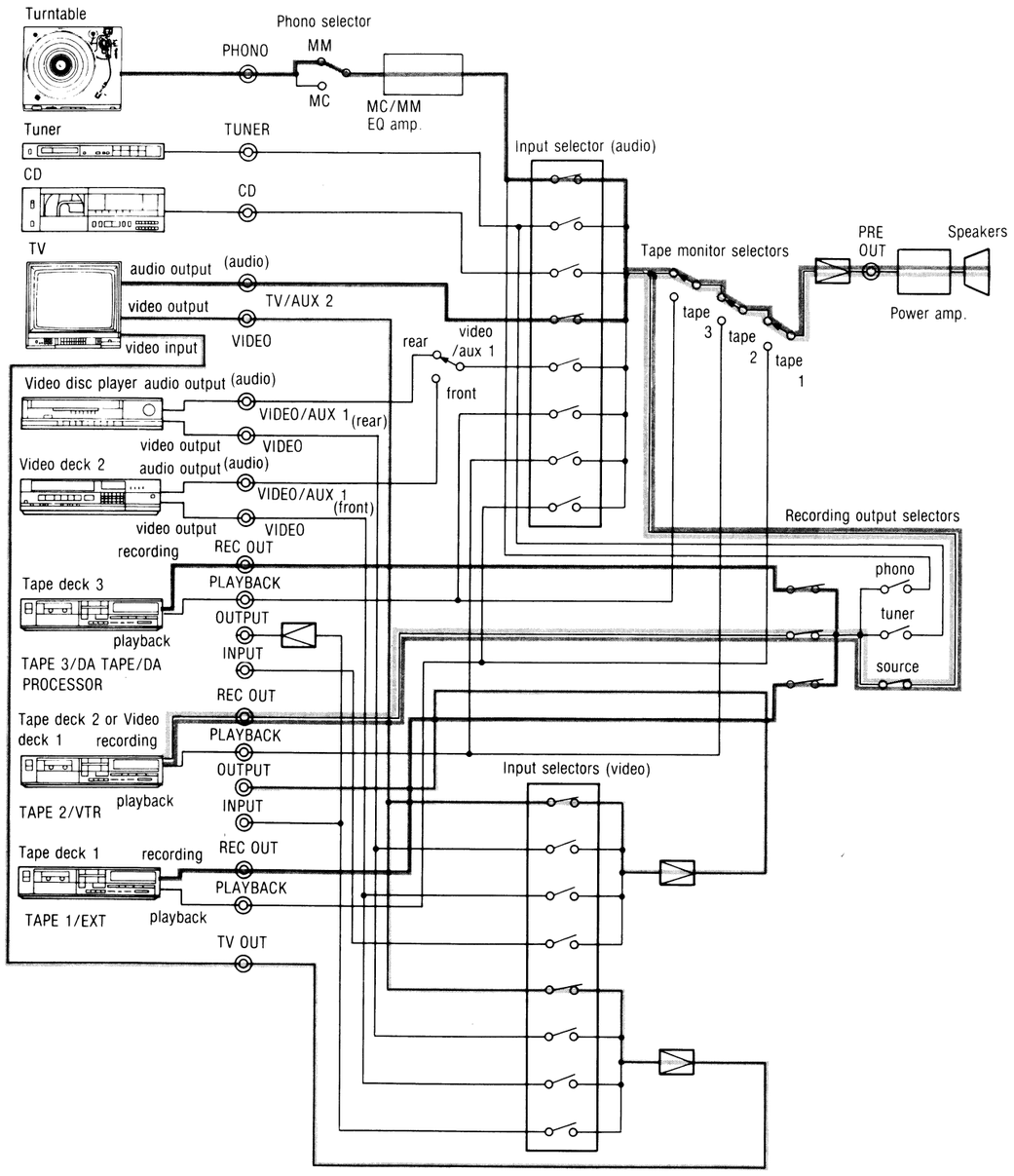
Ref. No. 4
Procedure 1 → 3 → 4



switch (odB, −20dB)
ndicator
Volume control
Control panel door release
eo input/auxiliary input 1
eo/aux 1 input) terminal
auxiliary input
lector (rear, front)
e selector (MM, MC)
mono)
20Hz)
AC outlets
tched
l switch (off ⟷ on)
r control

■ RECORDING

- **To record from a phono disc to 3 tape decks**
- **To record TV broadcasts**

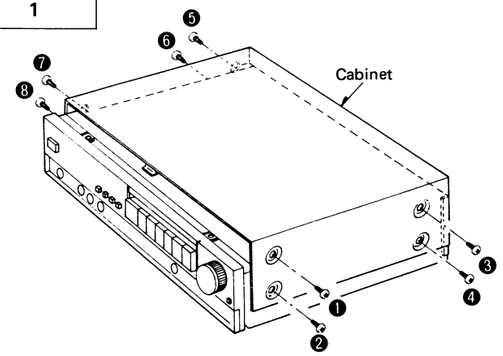


■ DISASSEMBLY INSTRUCTIONS

Ref. No. 1 — **How to remove the cabinet.**

Procedure 1

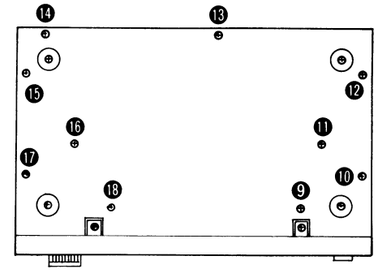
- Remove the 8 setscrews.



Ref. No. 2 — **How to remove the bottom board.**

Procedure 2

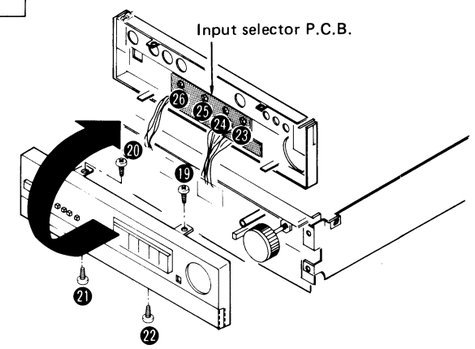
- Remove the 10 setscrews.



Ref. No. 3 — **How to remove the front panel.**

Procedure 1 → 3

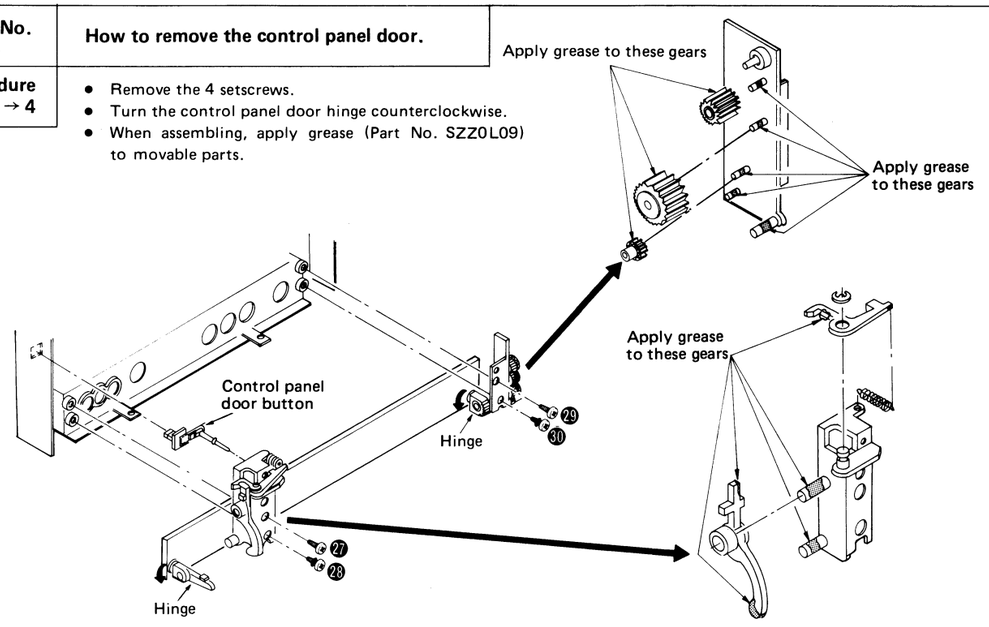
- Remove the 4 setscrews (⑲ ~ ㉒).
- Turn it over as shown by arrow.
- Remove the 4 setscrews of input selector P.C.B.



Ref. No. 4 — **How to remove the control panel door.**

Procedure 1 → 3 → 4

- Remove the 4 setscrews.
- Turn the control panel door hinge counterclockwise.
- When assembling, apply grease (Part No. SZZ0L09) to movable parts.



■ ADJUSTMENTS PROCEDURE

- **Conditions of the set, and instruments used**

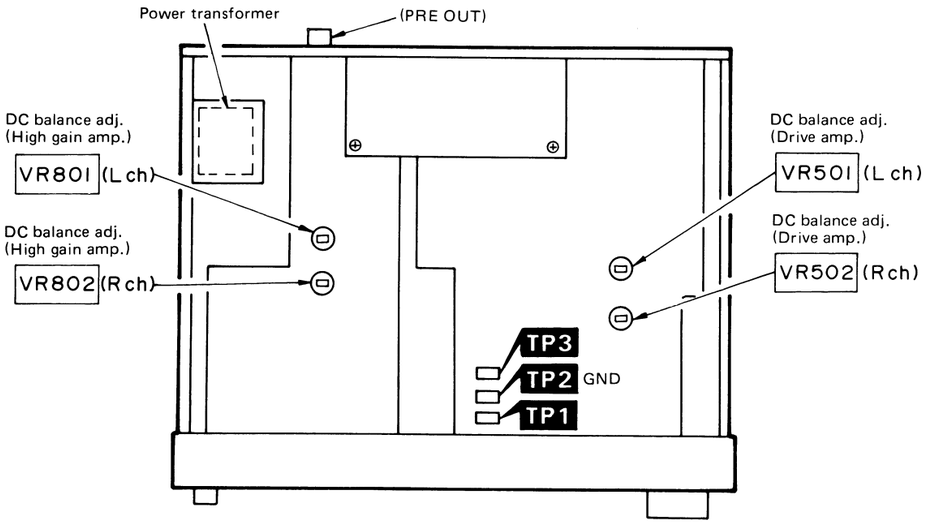
1. Input selectors switch . . . . . tuner
2. Operation switch . . . . . DC
3. Balance control . . . . . center
4. Volume control . . . . . 0dB (MAX.)
5. DC voltmeter (Precision type)

Caution

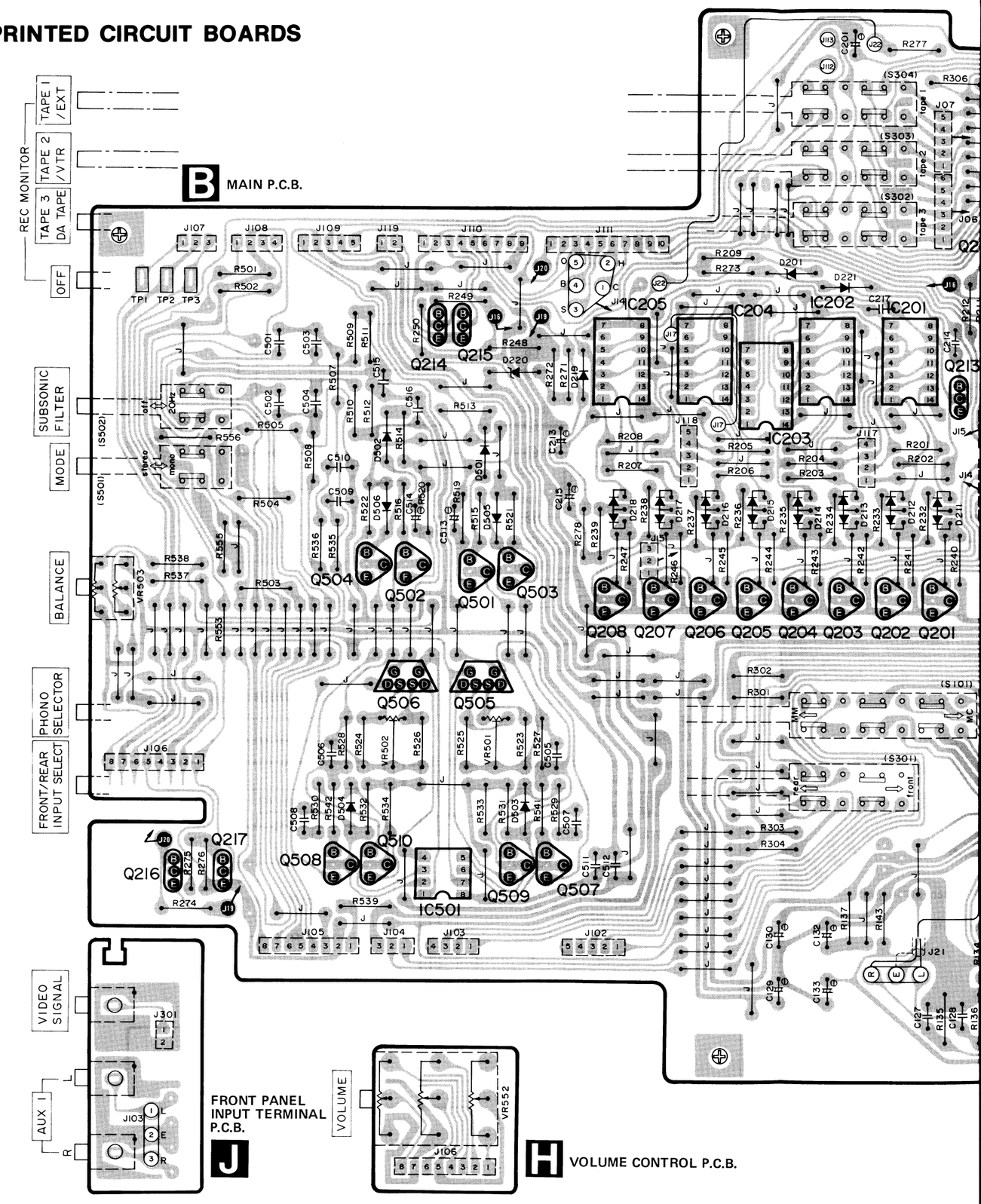
Make the adjustment at least 2 minutes after power switch ON.

Adjusting items	DC voltmeter connections	VR adjusted	Procedure
DC balance adj. (Drive amp.)	Lch: DC voltmeter connected between TP1 and TP2 (GND).	VR501	Adjust VR501 (Lch), and VR502 (Rch) so that DC voltmeter reading is 0 ± 0.1mV.
	Rch: DC voltmeter connected between TP3 and TP2 (GND).	VR502	
DC balance adj. (High gain amp.)	Lch: DC voltmeter connected to output terminal (Pre out).	VR801	Adjust VR801 (Lch), and VR802 (Rch) so that DC voltmeter reading is 0 ± 0.5mV.
	Rch: DC voltmeter connected to output terminal (Pre out).	VR802	

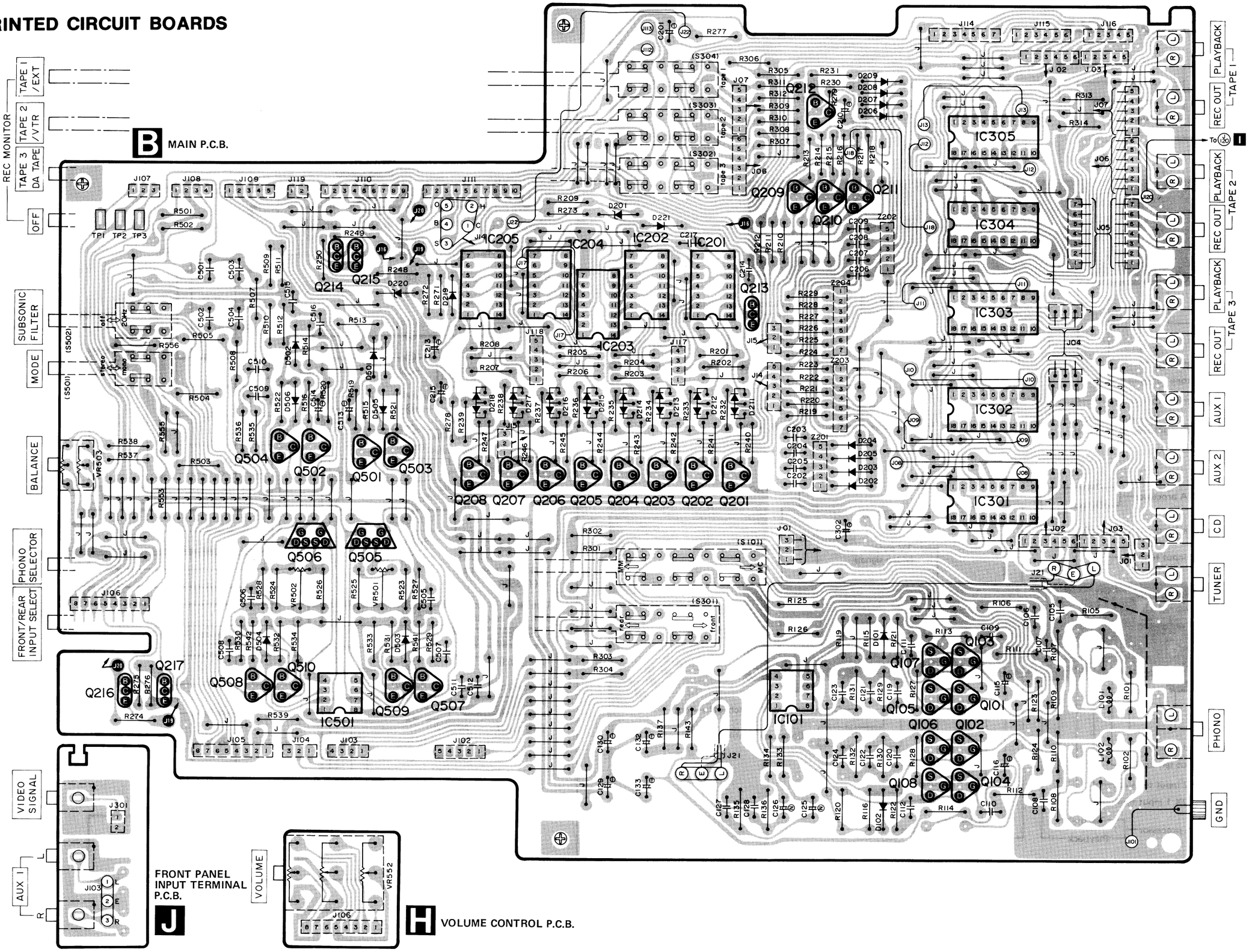
- **Adjustment points**



■ PRINTED CIRCUIT BOARDS

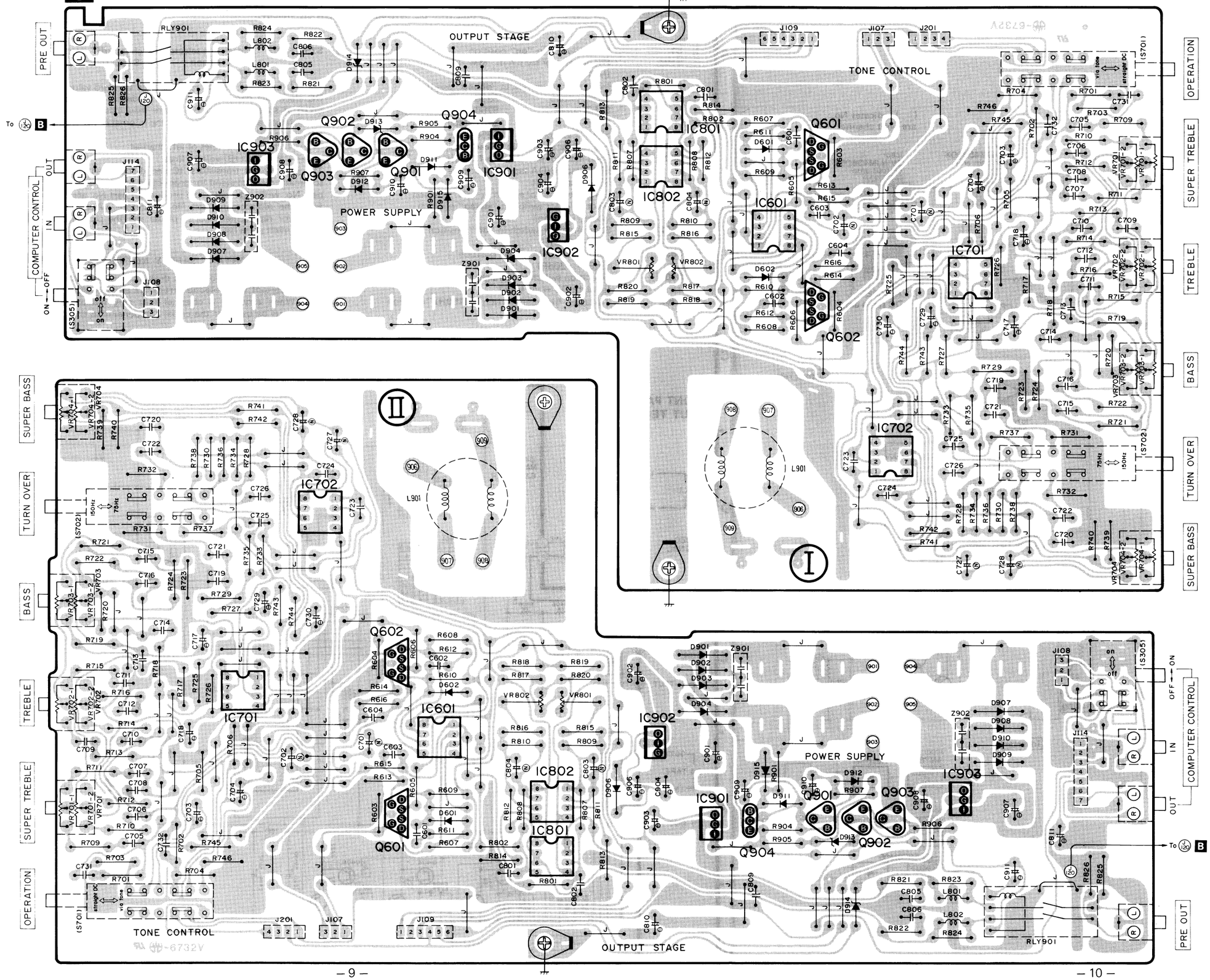


■ PRINTED CIRCUIT BOARDS

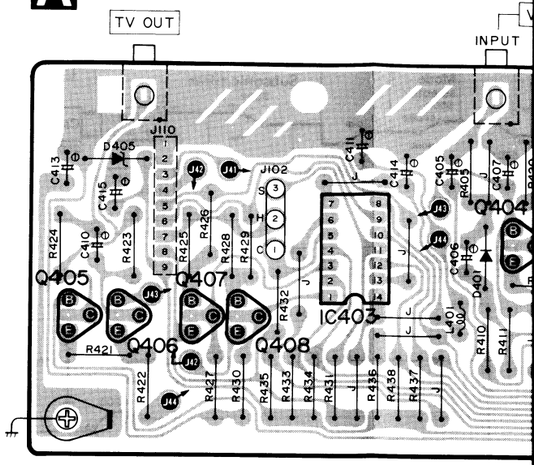


(This P.C.B. is available in two types (I) and (II) for the convenience of manufacture. (I) or (II) is printed on the P.C.B. So, check the type of P.C.B. before referring to the diagram shown here. The circuits of types (I) and (II) are not different from each other.)

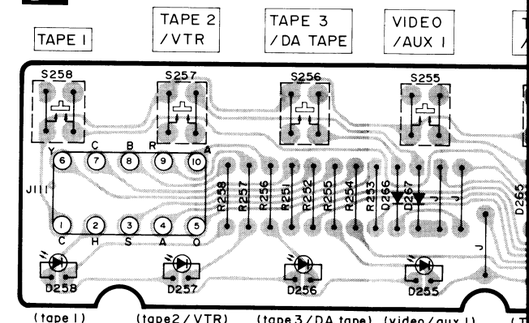
I OUTPUT AMP/DC SERVO/POWER SUPPLY P.C.B.



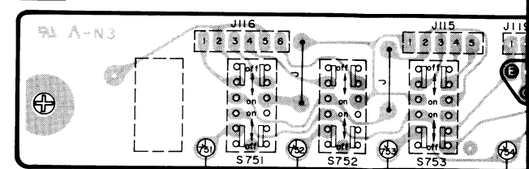
A VIDEO SIGNAL INPUT SELECTOR P.C.B.



F INPUT SELECTOR SWITCH/IND. P.C.B.

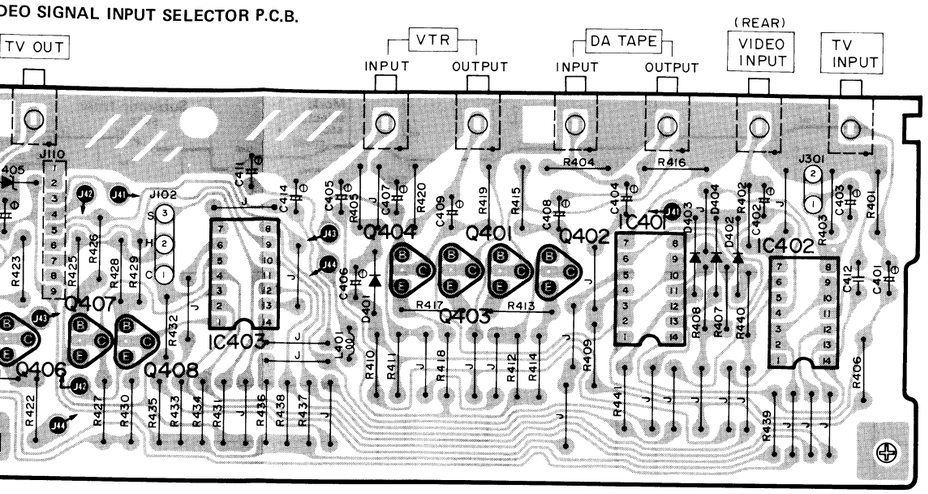


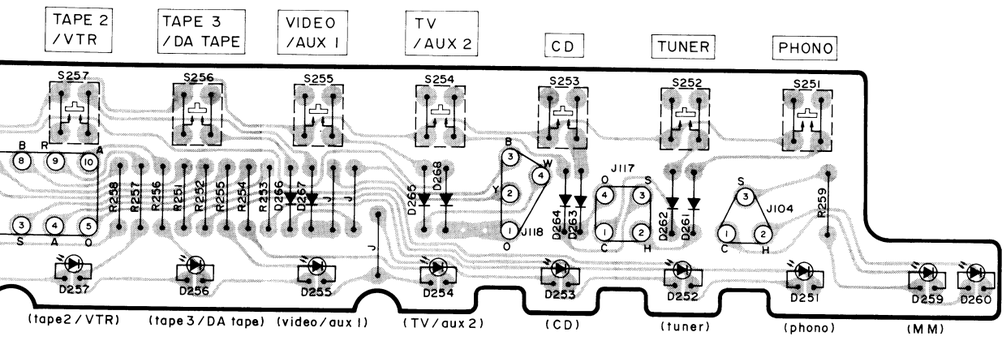
D RECORDING OUTPUT SELECTOR SWITCH P.C.B.

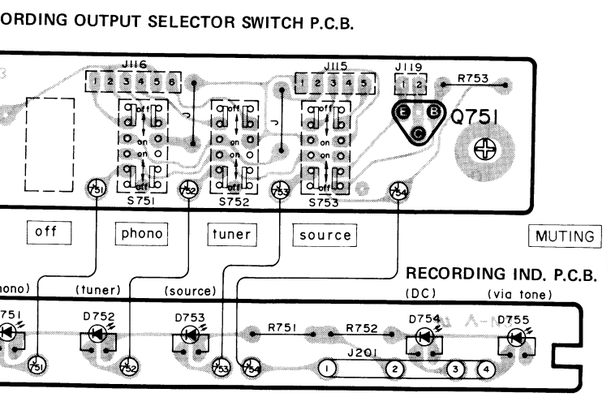


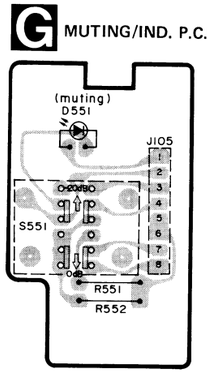
E

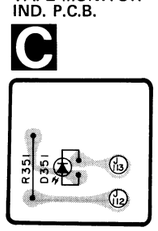
■ WIRING CONNECTION DIAGRAM (Top View)

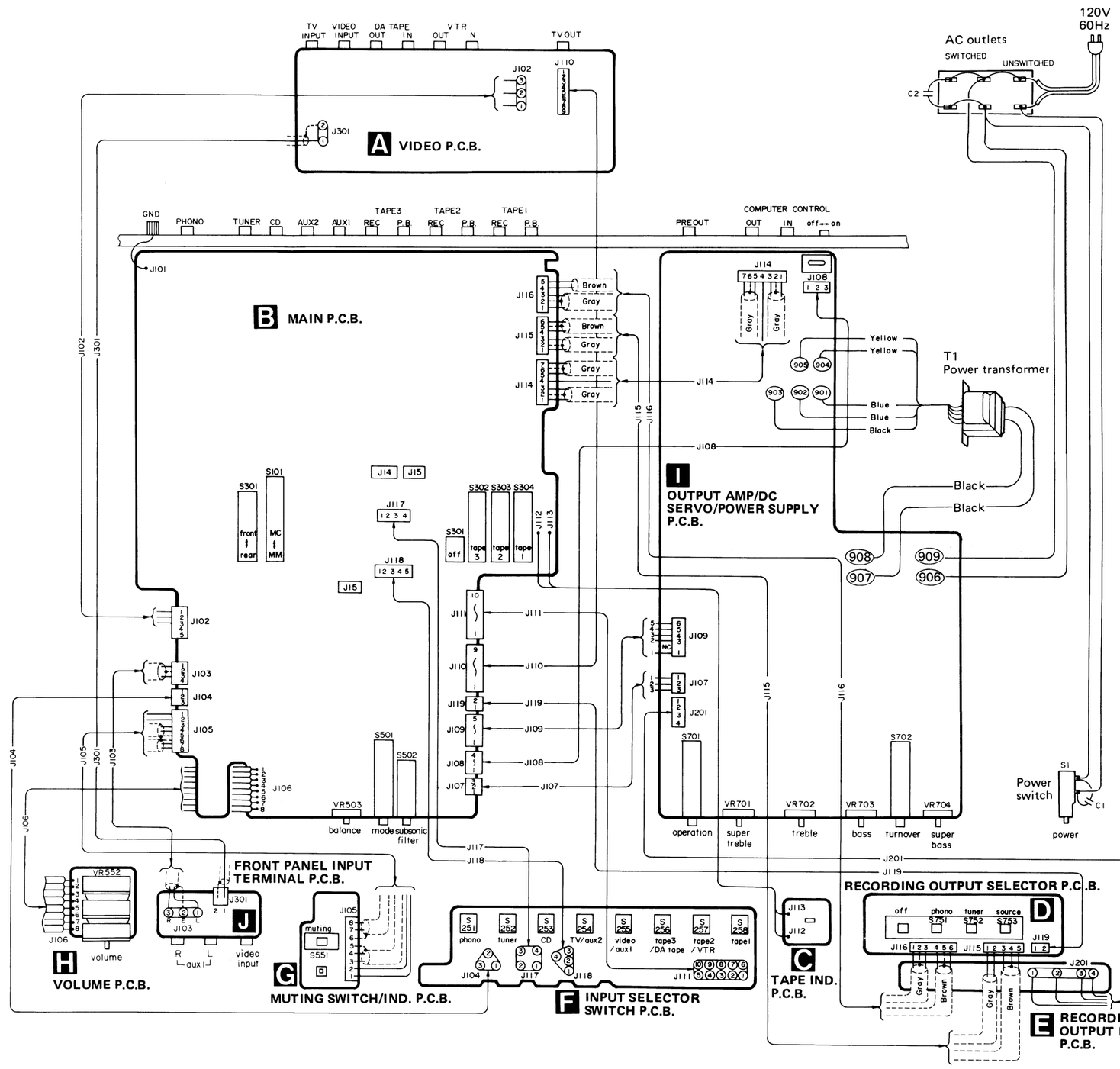






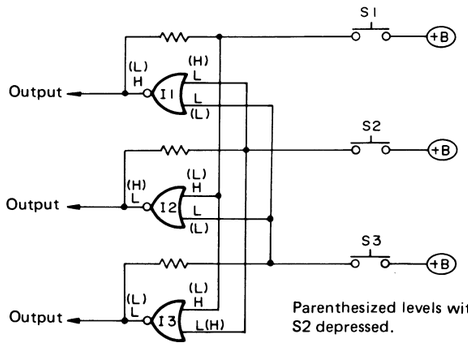






■ BASIC OPERATION OF INPUT SELECTOR CONTROL CIRCUIT

The input selector control circuit is a flip-flop circuit using NOR gate. The output of NOR gate goes "L" when even one of the input terminals is at "H". For example, with tact switch S1 depressed as shown below, the level of signal applied to input terminals of I2 and I3 is "H", and the output goes "L". The outputs of I2 and I3 are applied to input terminals of I1, causing only the level of I1 to go "H". With S2 depressed, "H" is applied to input terminals of I1 and I3, causing the output of I1 to change from "H" to "L". The output is then applied to I2 and I3, changing the output of I2 to "H" and that of I3 to "L". The circuit of this unit is of 8-stage configuration as shown in the block diagram, and operates as explained above.



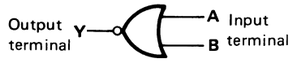


Table of logic

Output	Input	
Y	A	B
H	L	L
L	H	L
L	L	H
L	H	H

Parenthesized levels with S2 depressed.

■ SERVICING PARTS FOR EQUALIZER DIFFERENTIAL TRANSISTORS (Q101～Q108)

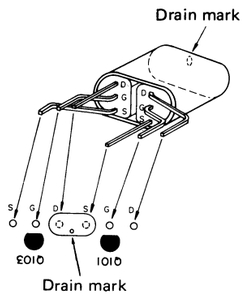
The equalizer differential transistors (Q101～Q108) used in this unit are 2SK369. However, when replacing the parts, be sure to use servicing repair parts 2SK146.

• Pairs replaced

When one of the parts in pair shown below is replaced, remove the other one as well and insert 2SK146 instead.

Combination

1	2	3	4
Q101 ↕ Q103	Q102 ↕ Q104	Q105 ↕ Q107	Q106 ↕ Q108

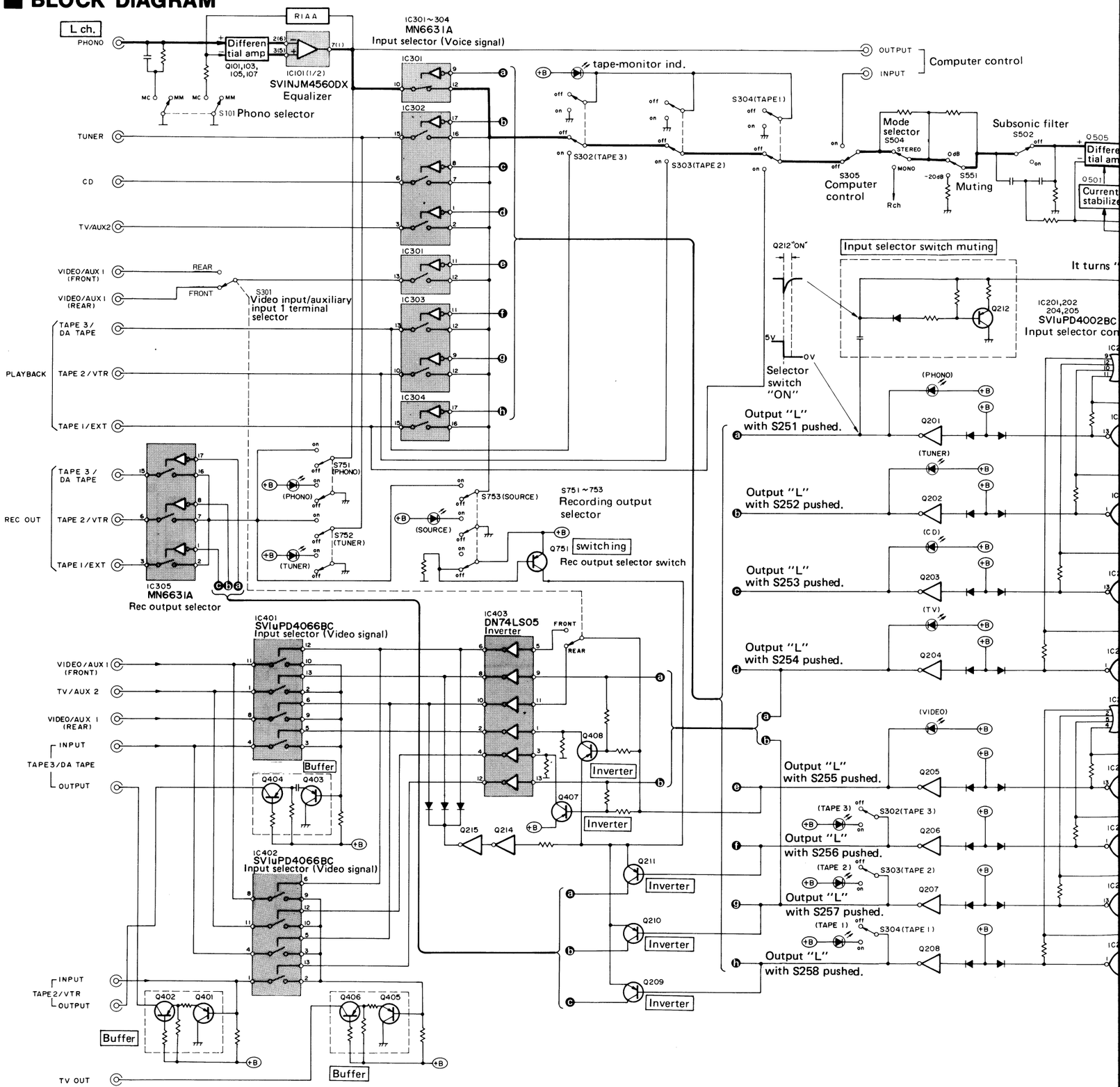


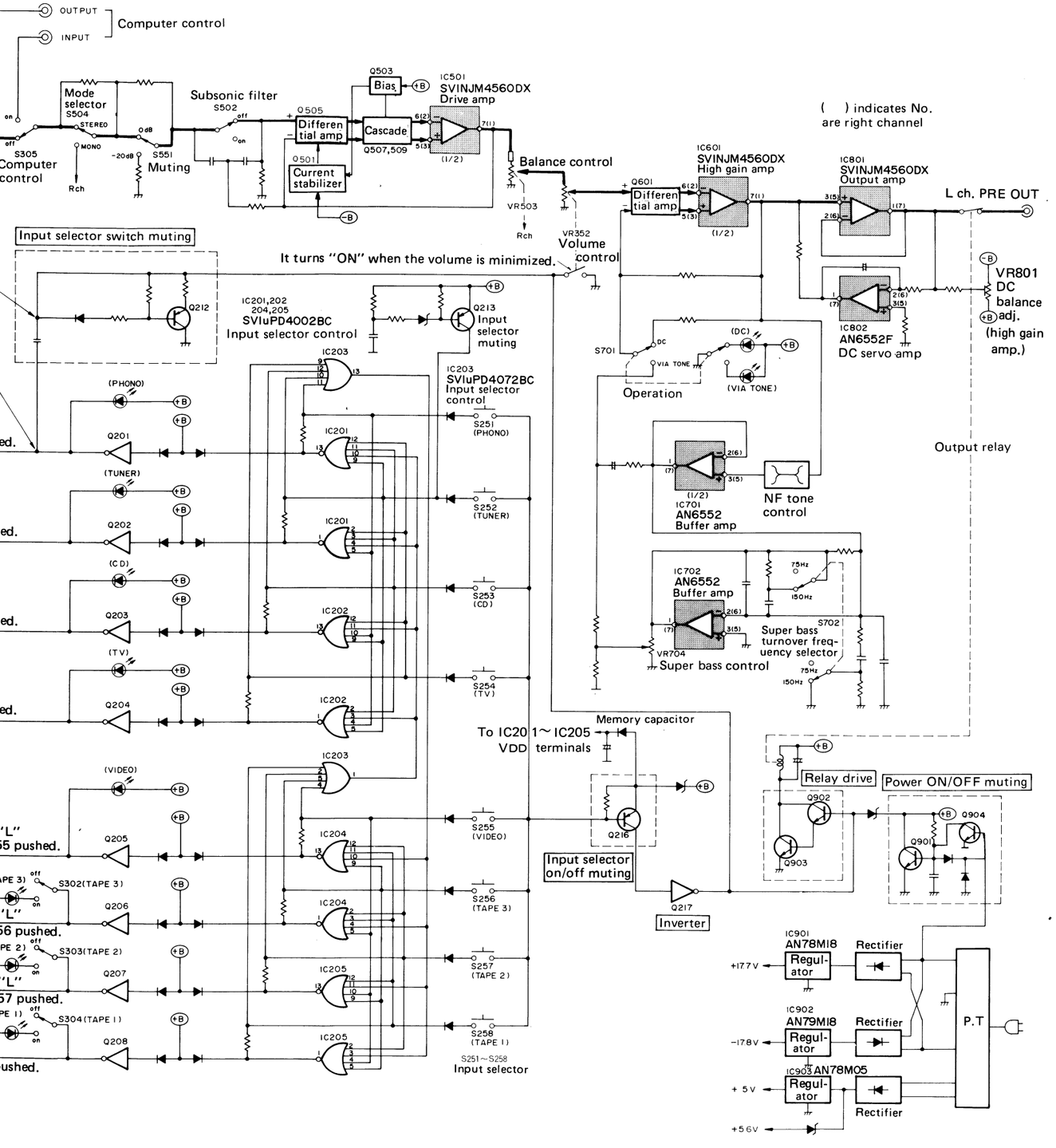
• How to fit

① 2SK146 includes 2 transistors. So, bend the legs as shown and put 2 or 3mm tube on each gate leg to prevent shorting between the leads.

② 2SK146 must be correctly inserted according to D, G and S indicated on the surface.

■ BLOCK DIAGRAM





SCHEMATIC DIAGRAM

(This schematic diagram may be modified at any time with the development of new technology.)

Notes:

1. **S1** : Power switch in "**on**" position
2. **S101** : Phono selector switch in "**MM**"-position (MM ↔ MC)
3. **S251 ~ 258** : Input selector switch in "**phono**" position
   S251: phono S255: video/aux 1
   S252: tuner S256: tape 3/DA tape
   S253: CD S257: tape 2/VTR
   S254: TV/aux 2 S258: tape 1
4. **S301** : Front/Rear selector in "**Rear**" position
5. **S302 ~ 304** : Tape monitor switch in "**off**" position
   S302: tape 3/DA tape S303: tape 2/VTR
   S304: tape 1/ext
6. **S305** : Computer control switch in "**off**" position
7. **S501** : Mode selector switch in "**stereo**" position (stereo ↔ mono)
8. **S502** : Subsonic filter switch in "**off**" position (off ↔ 20Hz)
9. **S551** : Muting switch in "**0dB**" position (0dB ↔ –20dB)
10. **S701** : Operation switch in "**straight DC**" position (straight DC ↔ via tone)
11. **S702** : Turnover frequency switch in "**150Hz**" position (75Hz ↔ 150Hz)
12. **S751 ~ 753** : Recording selector switch in "**off**" position
    S751: phono S753: source
    S752: tuner
13. ▭ Indicated voltage values are the standard values for the DC electronic circuit tester (high impedance) with the chassis taken as standard. Therefore, there may exist some errors in the voltage values, depending on the internal impedance of the DC circuit tester.
14. ▒▒▒ Phono signal lines of left channel.
15. ——— Positive (+B) voltage lines.

- The part No. of transistors, IC and diodes mentioned in the schematic diagram stand for production part No. Regarding the part No. with ✪ mark, the production part No. are different from the replacement part No. Therefore, when placing an order for replacement parts, please use the part No. in the replacement parts list.

IMPORTAN SAFETY NOTICE

The shaded area on this schematic diagram incorporates special features important for protection from fire and electrical shock hazards. When servicing is essential that only manufacturer's specified parts be used for the critial components in the shaded areas of the schematic.

B MAIN CIRCUIT

C

D351
SVDPR5533K
TAPE MONITOR
IND.

Q101~108
2SK369
DIFFERENTIAL
AMP

D101, 102
MA150

IC101
SVINJM4560DX
EQUALIZER

S101
(PHONO SELECTOR)

S301
(FRONT/REAR)
(SELECTOR)

S302 (TAPE3)
S303 (TAPE2)
S304 (TAPE1)

IC301 ~ 304
MN6631A
INPUT SELECTOR

Q212
2SA1015
INPUT SELECTOR
MUTING

IC305
MN6631A
OUTPUT SELECTOR

D202~209
MA150

Q214,215
2SC1685NC
INVERTER

PHONO
GND
TUNER
CD
AUX2
AUX1 (rear)
TAPE 3 REC OUT
TAPE 3 PLAYBACK
TAPE 2 REC OUT
TAPE 2 PLAYBACK
TAPE 1 REC OUT
TAPE 1 PLAYBACK

(TUNER)
(CD)
(AUX 2)
(AUX 1)
(TAPE3 RECOUT)
(TAPE3 PLAYBACK)
(TAPE2 REC OUT)
(TAPE2 PLAYBACK)
(TAPE1 REC OUT)
(TAPE1 PLAYBACK)

D RECORDING OUTPUT SELECTOR SWITCH

E RECORDING IND

D751~754
SVDPR5533K

D755
SVDAY5533K-M
STRAIGHT DC
IND.

D751 ~ 754
SVDPR5533K
D751 : REC SELECTOR(PHONO) IND.
D752 : REC SELECTOR(TUNER) IND.
D753 : REC SELECTOR(SOURCE) IND.
D754 : VIA TONE IND.

Q751
2SA1015
SWITCHING

S753 (SOURCE)
S752 (TUNER)
S751 (PHONO)
(OFF)

IC 303
IC 304
IC 305

COMPUTER CONTRO

IC301 ~ 304
MN6631A
INPUT SELECTOR

Q212
2SA1015
INPUT SELECTOR
MUTING

IC305
MN6631A
OUTPUT SELECTOR

D202 ~ 209
MA150

IC201
IC203

D211~218
SVDMC911

IC201, 202, 204, 205
SVμPD4002BC
LATCH CIRCUIT

NOR gate
NOR gate
OR gate
NOR gate
NOR gate

IC201
IC202
IC203
IC204
IC 205

D201
MA1100
10V ZENER

Q201~208
2SC1685NC
INVERTER
(INPUT SELECTOR
CONTROL)

IC203
SVμPD4072BC
LATCH CIRCUIT

Q209~211
2SA1015
INVERTER

Q214,215
2SC1685NC
INVERTER

G MUTING/IND

S551
(MUTING)

D551
SVDPR5735S
MUTING IND.

D221
MA150

D505,506
MA27WA
SWITCHING

H VOLUME CONTROL

Q213
2SA1015
INPUT SELECTOR
MUTING

IC501
SVINJM4560DX
DRIVE AMPLIFIER

S502
(SUBSONIC
FILTER)

DC balance adj.
(L ch.)

DC balance adj.
(R ch.)

Balance control

Q501, 502, 507~510
2SC1685NC
CURRENT STABILIZER
CASCADE

Q503, 504
2SA1015
BIAS

Q505, 506
2SK389
FET DIFFERENTIAL
AMPLIFIER

D501~504
MA150

Q217
2SC1685NC
INVERTER

Q216
2SA1015
INPUT SELECTOR
MUTING

D220
SVDMZ303B
3V ZENER

D219
MA150

It turns "ON" when
the volume is minimized

Q601, 602
2SK389
FET DIFFERENTIAL
AMPLIFIER

D601, 602
MA150

S305
(COMPUTER
CONTROL)

IC601, 801
SVINJM4560DX
HIGH GAIN AMPLIFIER
OUTPUT AMPLIFIER

S701
(OPERATION)

Treble tone

Bass tone

Super bass adj.

S702
(TUNER OVER)

IC702
AN6552
BUFFER
AMPLIFIER

IC701
SVINJM4560DX
BUFFER
AMPLIFIER

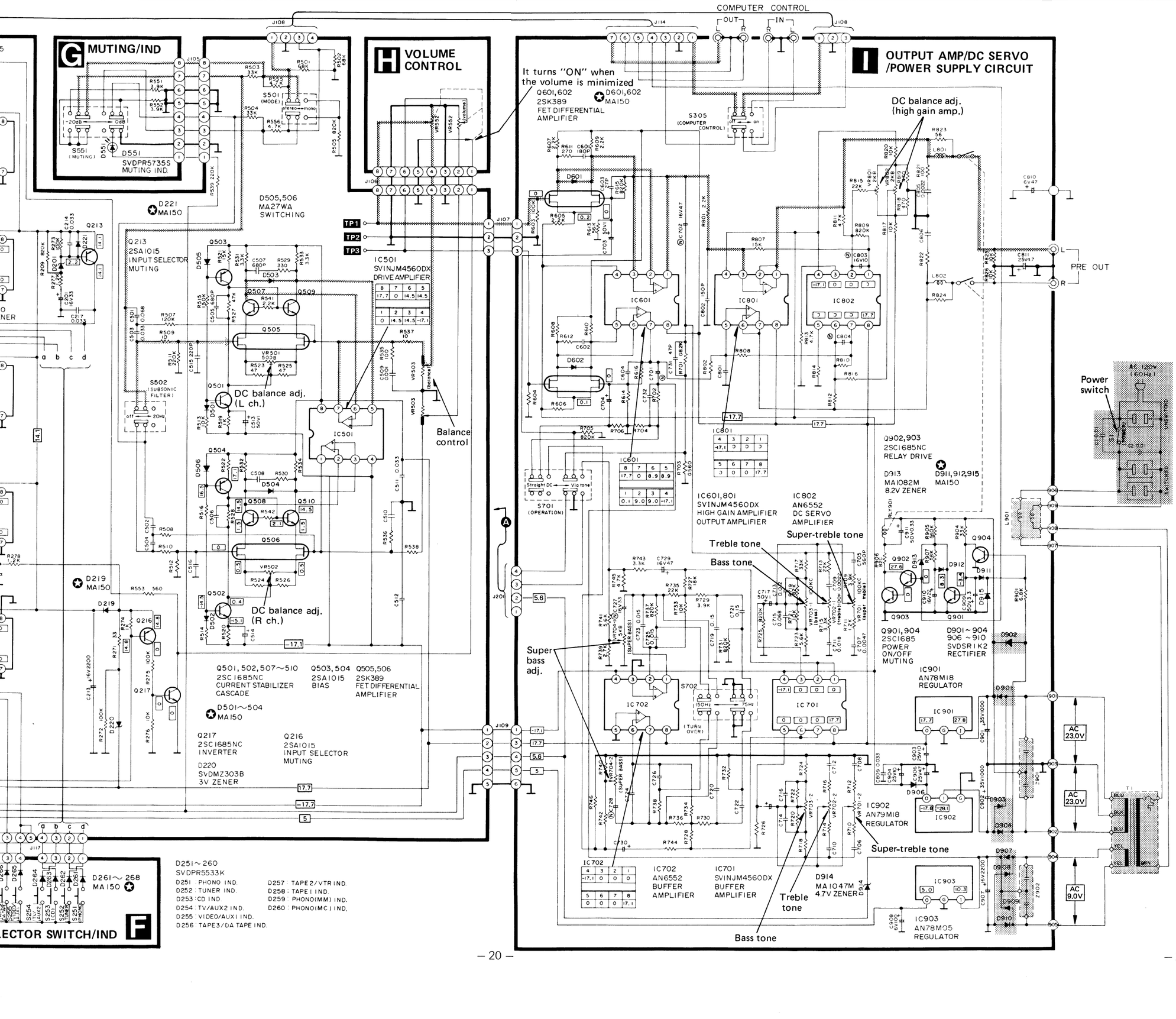
D251~260
SVDPR5333K

D251 : PHONO IND.
D252 : TUNER IND.
D253 : CD IND.
D254 : TV/AUX2 IND.
D255 : VIDEO/AUX1 IND.
D256 : TAPE3/DA TAPE IND.
D257 : TAPE2/VTR IND.
D258 : TAPE1 IND.
D259 : PHONO(MM) IND.
D260 : PHONO(MC) IND.

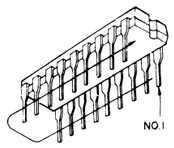
D261~268
MA150

F INPUT SELECTOR SWITCH/IND

19 20 21 22 23 24 25 26 27 28

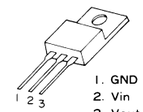


• Terminal guide of transistors diodes and IC's

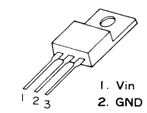


MN6631A	18pin
SVIUPD4002BC	14pin
SVIUPD4072BC	14pin
SVIUPD4066BC	14pin
DN74LS05	14pin
SVINJM4560DX	8pin
AN6552	8pin

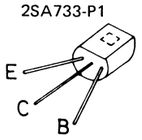
AN79M18



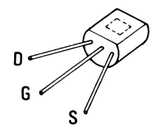
AN78M05
AN78M18



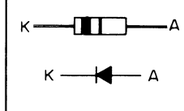
2SC1685-QNC
2SA1015-Y
2SA733-P1



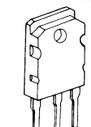
2SK369-G



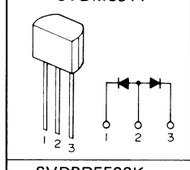
MA162A



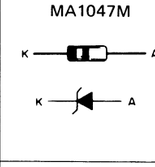
2SK389-GR



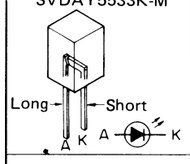
SVDMC911



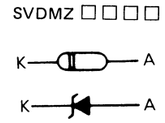
MA1120M
MA1047M



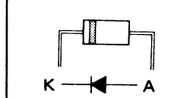
SVDPR5533K
SVDAY5533K-M



SVDMZ □□□□

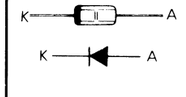


SVDSR1K2

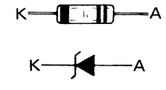


SVDPR5735S

MA27W–A



MA1082M



■ RESISTORS & CAPACITORS

Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts orders.
2. Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components use only manufacturer's specified parts.
3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
4. The "Ⓢ" mark is service standard parts and may differ from production parts.
5. The unit of resistance is OHM (Ω). K = 1000Ω, M = 1000KΩ
6. The unit of capacitance is MICROFARAD (μF). P = 10^{-6}μF

Numbering System of Resistor

Example

ERD	25	F	J	101
Type	Wattage	Shape	Tolerance	Value
ERG	2	AN	J	2R2
Type	Wattage	Shape	Tolerance	Value

Resistor Type	Wattage	Tolerance
ERD : Carbon ERO : Metal Film	25 : 1/4W S1 : 1W	F : ± 1% G : ± 2% J : ± 5% K : ± 10%

Numbering System of Capacitor

Example

ECKD	1H	103	Z	F
Type	Voltage	Value	Tolerance	Peculiarity
ECEA	50	M	R47	R
Type	Voltage	Peculiarity use	Value	Special use

Capacitor Type	Voltage		Tolerance
	ECEA Type	Others	
ECEA : Electrolytic ECEA : Non Polar Electrolytic ECCD : Ceramic ECKD : Ceramic ECQM : Polyester ECQP : Polypropylene	0J : 6.3V 1C : 16V 1E : 25V 1H : 50V 25Z : 25V	2H : 500V ECQP1 : 100V	G : ±2% J : ±5% K : ±10% Z : +80%, −20% M : ±20%

● RESISTORS

Ref. No.	Part No.	Value
R101,102 Ⓢ	ERD25FJ102	1K
R105,106 Ⓢ	ERD25FJ221	220
R107,108 Ⓢ	ERD25FJ2R2	2.2
R109,110 Ⓢ	ERD25TJ473	47K
R111,112 Ⓢ	ERD25FJ102	1K
R113,114	ERO25CKG1001	1K
R115,116	ERO25CKG1001	1K
R119,120	ERO25CKG1001	1K
R121,122 Ⓢ	ERD25FJ470	47
R123,124	ERO25CKF82R0	82
R125,126 Ⓢ	ERD25FJ3R3	3.3
R127,128 Ⓢ	ERD25FJ121	120
R129,130	ERO25CKF3901	3.9K
R131,132	ERO25CKF4702	47K
R133,134 Ⓢ	ERD25FJ561	560
R135,136 Ⓢ	ERD25TJ334	330K
R137 Ⓢ	ERD25FJ221	220
R143 Ⓢ	ERD25FJ221	220
R201,202 Ⓢ	ERD25FJ103	10K
R203,204 Ⓢ	ERD25FJ103	10K
R205,206 Ⓢ	ERD25FJ103	10K
R207,208 Ⓢ	ERD25FJ103	10K
R209 Ⓢ	ERD25TJ824	820K
R210,211 Ⓢ	ERD25FJ103	10K
R212,213 Ⓢ	ERD25FJ103	10K
R214,215 Ⓢ	ERD25FJ103	10K
R216,217 Ⓢ	ERD25FJ103	10K
R218 Ⓢ	ERD25FJ103	10K
R219,220 Ⓢ	ERD25TJ334	330K
R221,222 Ⓢ	ERD25TJ334	330K
R223,224 Ⓢ	ERD25TJ334	330K
R225,226 Ⓢ	ERD25TJ334	330K
R227,228 Ⓢ	ERD25TJ334	330K
R229 Ⓢ	ERD25TJ334	330K
R230 Ⓢ	ERD25FJ103	10K
R231 Ⓢ	ERD25TJ104	100K
R232,233 Ⓢ	ERD25TJ683	68K
R234,235 Ⓢ	ERD25TJ683	68K
R236,237 Ⓢ	ERD25TJ683	68K
R238,239 Ⓢ	ERD25TJ683	68K
R240,241 Ⓢ	ERD25FJ103	10K
R242,243 Ⓢ	ERD25FJ103	10K
R244,245 Ⓢ	ERD25FJ103	10K
R246,247 Ⓢ	ERD25FJ103	10K

Ref. No.	Part No.	Value
R248 Ⓢ	ERD25FJ562	5.6K
R249 Ⓢ	ERD25FJ103	10K
R250 Ⓢ	ERD25TJ473	47K
R251,252 Ⓢ	ERD25FJ221	220
R253,254 Ⓢ	ERD25FJ221	220
R255,256 Ⓢ	ERD25FJ221	220
R257,258 Ⓢ	ERD25FJ221	220
R259 Ⓢ	ERD25FJ221	220
R271 Ⓢ	ERD25FJ330	33
R272,273 Ⓢ	ERD25TJ104	100K
R274 Ⓢ	ERD25FJ102	1K
R275 Ⓢ	ERD25TJ104	100K
R276 Ⓢ	ERD25FJ103	10K
R277,278 Ⓢ	ERD25FJ122	1.2K
R279 Ⓢ	ERD25FJ561	560
R281	ERD25FJ472	4.7K
R301,302 Ⓢ	ERD25TJ824	820K
R303,304 Ⓢ	ERD25TJ824	820K
R277,278 Ⓢ	ERD25FJ122	1.2K
R279 Ⓢ	ERD25FJ561	560
R281	ERD25FJ472	4.7K
R305,306 Ⓢ	ERD25TJ824	820K
R307,308 Ⓢ	ERD25TJ824	820K
R309,310 Ⓢ	ERD25TJ824	820K
R311,312 Ⓢ	ERD25TJ824	820K
R313,314 Ⓢ	ERD25TJ824	820K
R351 Ⓢ	ERD25FJ221	220
R401,402 Ⓢ	ERD25FJ820	82
R403,404 Ⓢ	ERD25FJ820	82
R405 Ⓢ	ERD25FJ820	82
R406,407 Ⓢ	ERD25FJ102	1K
R408,409 Ⓢ	ERD25FJ102	1K
R410 Ⓢ	ERD25FJ102	1K
R411 Ⓢ	ERD25FJ821	820
R412 Ⓢ	ERD25FJ332	3.3K
R413 Ⓢ	ERD25FJ330	33
R414 Ⓢ	ERD25FJ470	47
R415 Ⓢ	ERD25FJ820	82
R416 Ⓢ	ERD25TJ104	100K
R417 Ⓢ	ERD25FJ330	33
R418 Ⓢ	ERD25FJ470	47
R419 Ⓢ	ERD25FJ820	82
R420 Ⓢ	ERD25TJ104	100K
R421 Ⓢ	ERD25FJ330	33

Ref. No.	Part No.	Value
R422 Ⓢ	ERD25FJ470	47
R423 Ⓢ	ERD25FJ820	82
R424 Ⓢ	ERD25TJ104	100K
R425,426 Ⓢ	ERD25FJ103	10K
R427 Ⓢ	ERD25FJ102	1K
R428,429 Ⓢ	ERD25TJ823	82K
R430,431 Ⓢ	ERD25FJ102	1K
R432 Ⓢ	ERD25FJ102	1K
R433,434 Ⓢ	ERD25TJ473	47K
R435 Ⓢ	ERD25TJ223	22K
R436 Ⓢ	ERD25TJ473	47K
R437 Ⓢ	ERD25TJ223	22K
R438 Ⓢ	ERD25TJ473	47K
R439 Ⓢ	ERD25FJ103	10K
R440,441 Ⓢ	ERD25TJ104	100K
R501,502 Ⓢ	ERD25TJ683	68K
R503,504 Ⓢ	ERD25TJ333	33K
R505 Ⓢ	ERD25TJ824	820K
R507,508 Ⓢ	ERD25TJ124	120K
R509,510 Ⓢ	ERD25FJ100	10
R511,512 Ⓢ	ERD25TJ224	220K
R513,514 Ⓢ	ERD25FJ103	10K
R515,516 Ⓢ	ERD25TJ154	150K
R519,520 Ⓢ	ERD25FJ102	1K
R521,522 Ⓢ	ERD25TJ153	15K
R523,524 Ⓢ	ERD25FJ470	47
R525,526 Ⓢ	ERD25FJ470	47
R527,528 Ⓢ	ERD25TJ473	47K
R529,530 Ⓢ	ERD25FJ331	330
R531,532 Ⓢ	ERD25FJ332	3.3K
R533,534 Ⓢ	ERD25FJ332	3.3K
R535,536 Ⓢ	ERD25FJ101	100
R537,538 Ⓢ	ERD25FJ100	10
R539 Ⓢ	ERD25FJ221	220
R541,542 Ⓢ	ERD25FJ222	2.2K
R551,552 Ⓢ	ERD25FJ392	3.9K
R553 Ⓢ	ERD25FJ561	560
R555,556 Ⓢ	ERD25FJ472	4.7K
R603,604 Ⓢ	ERD25TJ104	100K
R605,606 Ⓢ	ERD25FJ222	2.2K
R607,608 Ⓢ	ERD25FJ222	2.2K
R609,610 Ⓢ	ERD25FJ222	2.2K
R611,612 Ⓢ	ERD25FJ271	270
R613,614 Ⓢ	ERD25FJ563	56K

Ref. No.	Part No.	Value
R615,616 Ⓢ	ERD25TJ824	820K
R701,702	ERO25CKF8201	8.2K
R703,704	ERO25CKF5600	560
R705,706 Ⓢ	ERD25TJ824	820K
R709,710 Ⓢ	ERD25FJ392	3.9K
R711,712 Ⓢ	ERD25FJ122	1.2K
R713,714 Ⓢ	ERD25TJ223	22K
R723,724 Ⓢ	ERD25FJ562	5.6K
R715,716 Ⓢ	ERD25FJ332	3.3K
R717,718 Ⓢ	ERD25TJ333	33K
R719,720 Ⓢ	ERD25TJ823	82K
R721,722 Ⓢ	ERD25FJ103	10K
R725,726 Ⓢ	ERD25TJ824	820K
R727,728 Ⓢ	ERD25TJ183	18K
R729,730 Ⓢ	ERD25FJ392	3.9K
R731,732 Ⓢ	ERD25TJ824	820K
R733,734 Ⓢ	ERD25FJ103	10K
R735,736 Ⓢ	ERD25TJ223	22K
R737,738 Ⓢ	ERD25TJ824	820K
R739,740 Ⓢ	ERD25FJ272	2.7K
R741,742 Ⓢ	ERD25FJ562	5.6K
R743,744 Ⓢ	ERD25FJ332	3.3K
R745,746 Ⓢ	ERD25FJ472	4.7K
R751,752 Ⓢ	ERD25FJ221	220
R753 Ⓢ	ERD25FJ103	10K
R801,802 Ⓢ	ERD25FJ222	2.2K
R807,808 Ⓢ	ERD25TJ153	15K
R809,810 Ⓢ	ERD25TJ824	820K
R811,812 Ⓢ	ERD25FJ472	4.7K
R813,814 Ⓢ	ERD25FJ472	4.7K
R815,816 Ⓢ	ERD25TJ223	22K
R817 Ⓢ	ERD25FJ103	10K
R818,819 Ⓢ	ERD25FJ471	470
R820 Ⓢ	ERD25FJ103	10K
R821,822 Ⓢ	ERD25FJ101	100
R823,824 Ⓢ	ERD25FJ560	56
R825,826 Ⓢ	ERD25FJ103	10K
R901 Ⓢ	ERD25FJ682	6.8K
R904 Ⓢ	ERD25FJ333	33K
R905 Ⓢ	ERD25TJ564	560K
R906 ⚠	ERDS1FJ821	820
R907 Ⓢ	ERD25TJ563	56K

● CAPACITORS

Ref. No.	Part No.	Value
C1,2 ⚠	ECKDKC103PF2	0.01
C105,106	ECQM1H222JZ	0.0022
C107,108 Ⓢ	ECCD1H680K	68P
C109,110 Ⓢ	ECKD1H102KB	0.001
C111,112	ECQM1H472JZ	0.0047
C115,116	ECEAOJU332	3300
C119,120	ECQP1183GZ	0.018
C121,122	ECQM1H152JV	0.0015
C123,124	ECQP1683JZ	0.068
C125,126 ⚠	ECEA1EN3R3S	3.3
C127,128	ECQM1H562JV3	0.0056
C129	ECEA1EU101	100
C130	ECEA1EU4R7	4.7
C132	ECEA1CU220	220
C133	ECEA1EU101	100
C201	ECEA1CU330	33
C202,203 Ⓢ	ECKD1H333ZF	0.033
C204,205 Ⓢ	ECKD1H333ZF	0.033
C206,207 Ⓢ	ECKD1H333ZF	0.033

Ref. No.	Part No.	Value
C208,209 Ⓢ	ECKD1H333ZF	0.033
C210	ECEA1HU2R2	2.2
C213	ECEA1CU222	2200
C214 Ⓢ	ECKD1H333ZF	0.033
C215	ECEA1CU221	220
C217	ECKD1H333ZF	0.033
C301,302	ECEA1EU470	47
C401,402	ECEAOJU470	47
C403,404	ECEAOJU470	47
C405,406	ECEAOJU470	47
C407	ECEAOJU470	47
C408,409	ECEAOJU471	470
C410	ECEAOJU471	470
C411	ECEAOJU101	100
C412 Ⓢ	ECKD1H333ZF	0.033
C413,414	ECEAOJU470	47
C415	ECEA1EU4R7	4.7
C501,502	ECQM1H683KV	0.068
C503,504	ECQM1H333KV	0.033

Ref. No.	Part No.	Value
C505,506 Ⓢ	ECKD1H681KB	680P
C507,508 Ⓢ	ECKD1H681KB	680P
C509,510 Ⓢ	ECKD1H102KB	0.001
C511,512 Ⓢ	ECKD1H333ZF	0.033
C513,514	ECEA1HU010	1
C515,516 Ⓢ	ECKD1H221KB	220P
C601,602 Ⓢ	ECCD1H181K	180P
C603,604 Ⓢ	ECCD1H270K	27P
C701,702 ⚠	ECEA1CN470S	47
C703,704	ECEA1HU010	1
C705,706 Ⓢ	ECKD1H561KB	560P
C707,708	ECQM1H472JZ	0.0047
C709,710	ECQM1H222JZ	0.0022
C711,712	ECQM1H183KV	0.018
C713,714	ECQM1H123KV	0.012
C715,716	ECQM1H683KV	0.068
C717,718	ECEA1HU010	1
C719,720	ECQM1H154KV	0.15
C721,722	ECQM1H154KV	0.15

Ref. No.	Part No.	Value
C723,724	ECQM1H153KV	0.015
C725,726	ECQM1H153KV	0.015
C727,728 ⚠	ECEA1CN330S	33
C729,730	ECEA1CU470	47
C731,732 Ⓢ	ECCD1H470K	47P
C801,802 Ⓢ	ECCD1H151K	150P
C803,804 ⚠	ECEA1CN100S	10
C805,806	ECQM1H222JZ	0.0022
C809 Ⓢ	ECKD1H333ZF	0.033
C810	ECEAOJU470	47
C811	ECEA1EU4R7	4.7
C901,902	ECEA1VU102	1000
C903,904	ECEA1EU100	10
C906	ECEA1EU470	47
C907	ECEA1CU222	2200
C908	ECEAOJU101	100
C909	ECEA1HU3R3	3.3
C910	ECEA1CU220	22
C911	ECEA1HUR33	0.33

■ REPLACEMENT PARTS LIST

Notes: 1. Part numbers are indicated on most mechanical parts. Please use this part number for parts order.
2. Important safety notice: Components identified by ⚠ mark have special characteristics important for safety. When replacing any of these components, use only manufacturer's specified parts.
3. Bracketed indications in Ref. No. columns specify the area. Parts without these indications can be used for all areas.
4. The "Ⓢ" mark is service standard parts and may differ from production parts.
5. The parenthesized numbers in the column of description stand for the quantity per set.

Ref. No.	Part No.	Part Name & Description
INTEGRATED CIRCUITS		
IC101,501,601,701,801	SVINJM4560DX	Equalizer, Drive Buffer, Amp
IC201,202,204,205	SVIUPD4002BC	Input selector control
IC203	SVIUPD4072BC	Input selector Control
IC301～305	MN6631A	Input selector (Voice signal)
IC401,402	SVIUPD4066BC	Input selector (Video signal)
IC403	DN74LS05	Inverter
IC702,802	AN6552F	Buffer, DCservo
IC901	AN78M18	Regulator
IC902	AN79M18	Regulator
IC903	AN78M05	Regulator
TRANSISTORS		
Q101～108	2SK369－GR	Differential amp
Q201～208,214,215,217,501,502,507～510,901～904	2SC1685－QNC	Inverter, Input selector, Relay drive
Q209～213,216,407,408,503,504,751	2SA1015－Y	Inverter, Input selector, switching
Q401～406	2SA733－P1	Buffer amp
Q505,506,601,602	2SK389－GR	Differential amp

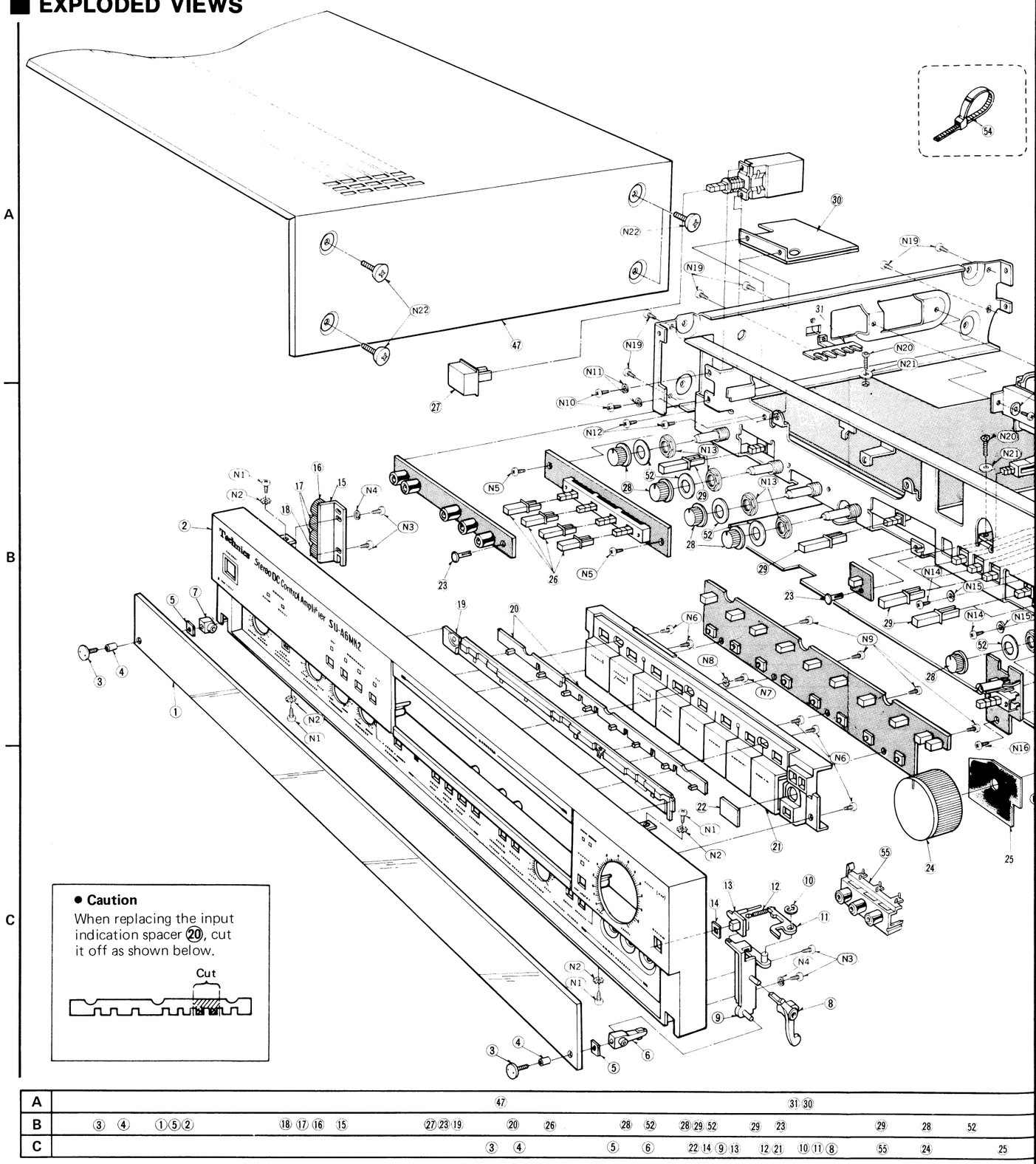
Ref. No.	Part No.	Part Name & Description
DIODES		
D101,102,202～209,219,221,261～268 Ⓢ 501～504,601,602,911,912,915	MA162A	Switching
D201	MA1100－M	10V, Zener
D211～218	SVDMC911	Input selector
D220	SVDMZ303BM	3V, Zener
D251～260,351	SVDPR5533K	Input selector IND
D401,505,506	MA27W－A	Switching
D402～404 Ⓢ	MA162A	Input selector
D405	MA1068－M	6.8V Zener
D406	MA1056M	5.6V Zener
D551	SVDPR5735S	Muting IND
D751～754	SVDPR5533K	Rec output
D755	SVDAY5533K－M	DC IND
D901～904,906～910 ⚠	SVDSRIK2	Rectifier
D913	MA1082M	8.2V Zener
D914	MA1047A	4.7V Zener
COILS		
L101,102	SLQW470－2P	Choke
L401	SLQX181－1D	Choke
L801,802	RLQX1013－D	Choke
L901	SLQZ650MH49	Choke
TRANSFORMERS		
T1 ⚠	SLT5K165	Power Source

Ref. No.	Part No.	Part Name & Description
VARIABLE RESISTORS		
VR501,502	EVNK6AA00B52	DC offset adj, 500Ω(B)
VR503	EWGHCA054703	Balance
VR552	EWI6SA049101	Volume
VR701,702	EWGHC0054C15	Treble, super treble 100KΩ(C)
VR703	EWGHCY054530	Bass
VR704	EWKK5A531B53	Supper Bass, 5KΩ(B)
VR801,802	EVNK6AA00B23	DC offset adj, 2KΩ(B)
RELAY		
RLY901	SSY9	output
COMPONENT COMBINATIONS		
Z201,202	EXBP84104K	100kΩ×4
Z203,204	EXFP6103ZW	0.01μF×6
Z901,902	SXRFS203ZSM	0.01μF×2
SWITCHES		
S1 ⚠	ESB9939T	Power switch
S101,301	SSH2071	Phono, terminal selector
S251～258	SSG13	Input selector
S302～304	SSH469	Tape monitor
S305	RSS42A	Computer control
S501,502	SSH2073	Rec mode, Subsonic
S551	SSH1139	Muting
S701,702	SSH1137	Operation, supper Bass
S751～753	SSH471	Rec output

Ref. No.	Part No.
CABINET AND CHASSIS P	
1	SGU187
2	SGWUA6MK2－KN
3	SNE2083
4	SHG6131
5	SHR9575
6	SUB51
7	SUB53
8	SUB57
9	SUE23－1
10	XUC3FT
11	SUB55
12	SUS223
13	SBC639
14	SHG6129
15	SUE25－1
16	SUB65
17	SUB59
18	SUB63
19	SBCUA6MK2－KN
20	SGL165
21	SGXUA6MK2－KN
22	SDU241
23	RHR969ZA
24	SBN1169
25	SHP9377
26	SBC621
27	SBC627
28	SBN1167
29	SBC399T
30	SMCUA6MK2－KN
31	RJR2B
32	SKU8790－3
33	SKL247－2
34	SUB99
35(M)	SJS601－3
35(MC)	SJS603
36	SHR129
37	SJA109
38	SMC1135
39(M)	SGP6050C
39(MC)	SGP6050D
40	SJF3057－3N
41	SJF3057－4A
42	SJF3057－3N
43	SJF3059－7N
44	SJF3225－3SA
45	SJF3061－4N
46	SJF3061－3N
47	SKC350B2
48	SNE4017
49	SNTA421
50	SNEA204－2S
51	RJT204A
52	SHP9319
53	SJF3061N

Ref. No.	Part No.	Part Name & Description
CABINET AND CHASSIS PARTS		
1	SGU187	Transparent plate (1)
2	SGWUA6MK2−KN	Front panel Ass'y (1)
3	SNE2083	Rock pin (1)
4	SHG6131	Spacer (1)
5	SHR9575	Spacer (1)
6	SUB51	Hinge, Operation Lever(R) (1)
7	SUB53	Hinge, Operation Lever(L) (1)
8	SUB57	Operation Lever (R) (1)
9	SUE23−1	Holder, Operation Lever (1)
10	XUC3FT	E Ring (1)
11	SUB55	Hinge, Operation Lever (1)
12	SUS223	Spring (1)
13	SBC639	Button (1)
14	SHG6129	Spacer (1)
15	SUE25−1	Holder, Gear (1)
16	SUB65	Gear (1)
17	SUB59	Gear (2)
18	SUB63	Gear (1)
19	SBCUA6MK2−KN	Input selector, Plate (1)
20	SGL165	Input selector, Spacer (1)
21	SGXUA6MK2−KN	Input selector, Button (1)
22	SDU241	Spacer, Muting (1)
23	RHR969ZA	Lock pin (1)
24	SBN1169	Knob, Volume (1)
25	SHP9377	Spacer, Volume (1)
26	SBC621	Button, Rec selector (4)
27	SBC627	Button, Power (1)
28	SBN1167	Knob (5)
29	SBC399T	Button (5)
30	SMCUA6MK2−KN	Bracket, Power Transformer (1)
31	RJR2B	Holder (1)
32	SKU8790−3	Bottom Board (1)
33	SKL247−2	Foot (4)
34	SUB99	Connection Rod (5)
35〔M〕	SJS601−3	Socket, AC Outlet (1)
35〔MC〕	SJS603	Socket, AC Outlet (1)
36	SHR129	Bushing, AC Outlet (1)
37	SJA109	AC Cord (1)
38	SMC1135	Shield cover (1)
39〔M〕	SGP6050C	Rear Panel (1)
39〔MC〕	SGP6050D	Rear Panel (1)
40	SJF3057−3N	Terminal, Computer Control (1)
41	SJF3057−4A	Terminal, Output (1)
42	SJF3057−3N	Terminal, Tape1,2 (1)
43	SJF3059−7N	Terminal, Tape3, Tuner (1)
44	SJF3225−3SA	Terminal, Phono (1)
45	SJF3061−4N	Terminal, TV, VIDEO, Tape3 (1)
46	SJF3061−3N	Terminal, Tape2 (1)
47	SKC350B2	Cabinet (1)
48	SNE4017	Terminal, Grand (1)
49	SNTA421	Terminal, Grand (1)
50	SNEA204−2S	Terminal, Grand (1)
51	RJT204A	Terminal, Grand (1)
52	SHP9319	Space (1)
53	SJF3061N	Terminal, OUTPUT (1)
54	SHR301	Clamp (8)
55	SJF3061−2N	Terminal, VIDEO Signal (1)
56	SJT3511	Post(5 pin) (2)
56	SJT3611	Post(6 pin) (1)
57	SJS5331	Socket(3 pin) (1)
57	SJS5629	Socket(6 pin) (1)
58	SJT783	Terminal (32)
SCREWS, WASHERS AND NUT		
N1 Ⓢ	XTB3+8BFZ	⊕3×8, Front Panel (1)
N2 Ⓢ	XWC3B	Washer, Front Panel (2)
N3 Ⓢ	XSN3+6S	⊕3×6 (1)
N4 Ⓢ	XWA3B	ϕ3 (4)
N5 Ⓢ	XTB3+8B	⊕3×8 (8)
N6 Ⓢ	XTB3+10B	⊕3×10 (5)
N7 Ⓢ	XTB3+8B	⊕3×8 (2)
N8 Ⓢ	XWC3B	Washer (1)
N9 Ⓢ	XTB3+8B	⊕3×8 (2)
N10 Ⓢ	XSN3+6S	⊕3×6 (2)
N11 Ⓢ	XWA3B	Washer (2)
N12 Ⓢ	XTB3+8B	⊕3×8, Shield (1)
N13	SNE4021	Washer, Volume (1)
N14 Ⓢ	XSN3+6S	⊕3×6 (5)
N15 Ⓢ	XWA3B	Washer (2)
N16 Ⓢ	XTB3+8B	⊕3×8 (2)
N17 Ⓢ	XTB3+8BFZ	⊕3×8 (1)
N18 Ⓢ	XTB3+12BFZ	⊕3×12 (4)
N19 Ⓢ	XTB3+8B	⊕3×8 (10)
N20 Ⓢ	XTV3+8B	⊕3×8 (4)
N21 Ⓢ	XWG3	Washer (4)
N22	XSSS5+12FIS	⊕5×12 Cabinet (8)
N23 Ⓢ	XTB3+8BFZ	⊕3×8 (10)
N24 Ⓢ	XWC4B	Washer (2)
N25 Ⓢ	XNG4BS	Nut (1)
N26 Ⓢ	XTB3+8BFN	⊕3×8 (2)
N27 Ⓢ	XWT4	Washer (2)
PACKING PARTS		
P1	SPP689	Polyethylene Bag (1)
P2	SPH207	Sheet (1)
P3	SPS2955−6	Pad, left Side (1)
P4	SPS2957−5	Pad, Right side (1)
P5〔M〕	SPG4791	Carton Box (1)
P5〔MC〕	SPG4792	Carton Box (1)
ACCESSORIES		
A1	SJP2239	Pin cord (1)
A2	TSX299	Pin cord (1)
A3〔M〕	SQF12025	Instruction Book (1)
A3〔MC〕	SQF12026	Instruction Book (1)
A4	SJPA11−1	Short Pin (10)

■ EXPLODED VIEWS



● Caution

When replacing the input indication spacer ⑳, cut it off as shown below.

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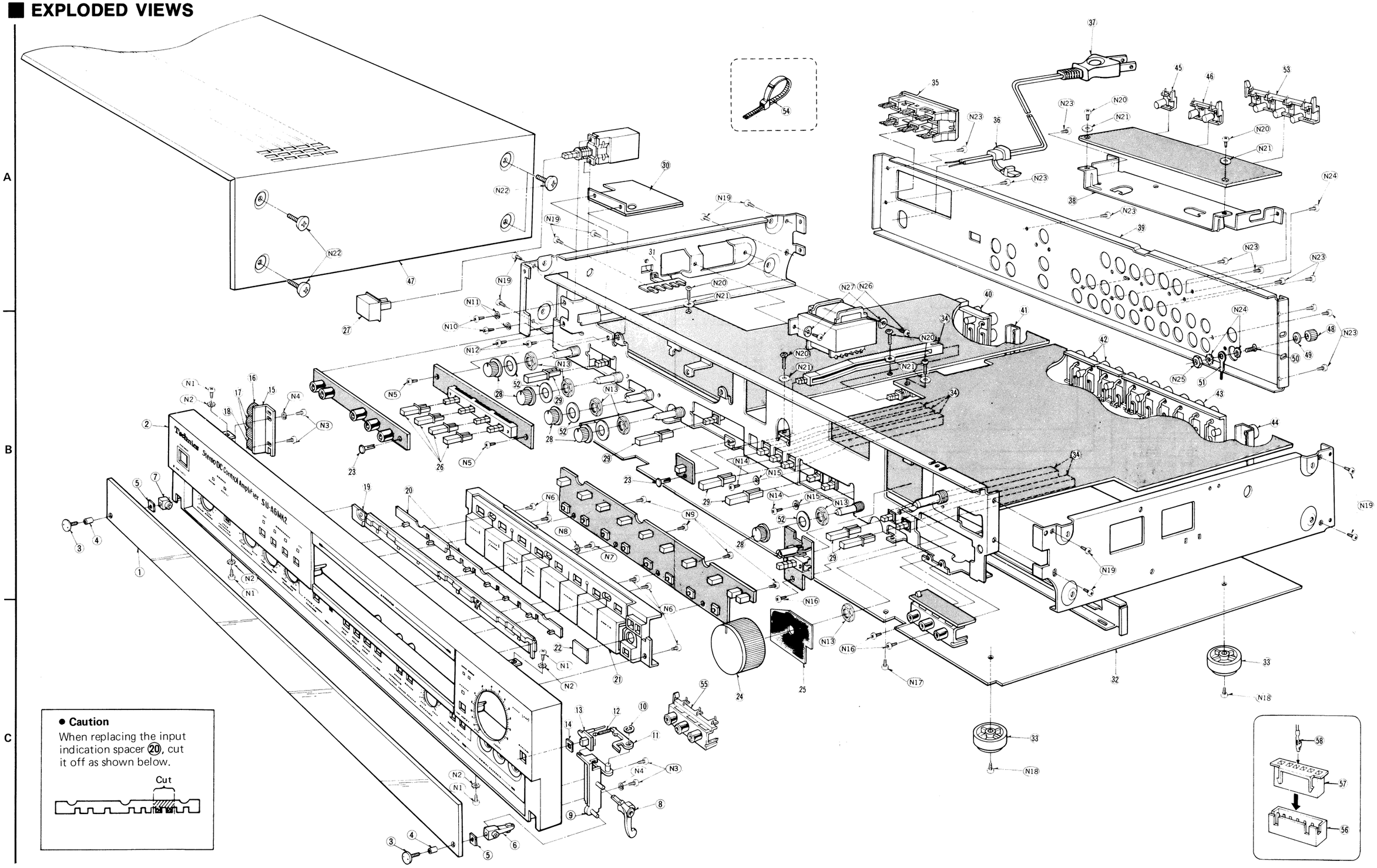
■ EXPLODED VIEWS



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